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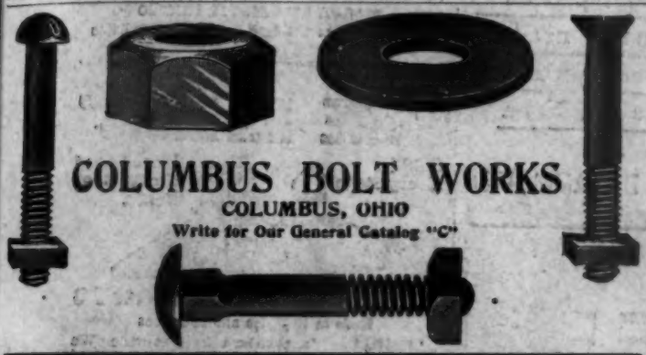
The American Artisan
THE HARDWARE RECORD

Vol. 46—No. 17. CHICAGO, OCTOBER 24, 1903. $2.00 per Year.



COLUMBUS BOLT WORKS
COLUMBUS, OHIO
Write for Our General Catalog "C"

PURE ASPHALT ROOFING
Never Dries Out or Cracks Our Tarred Ready Roofing, Slaters' Felt, Building Paper, Roofing Cements, Paints, Etc
WRITE US FOR PRICES
J. L. PERKINS & CO. 235 Lake St. CHICAGO

Never Will Leak . . .

American Seal Elastic Oil Cement will not get hard—always stays elastic.

Stops leaks in any roof—old or new, and will wear for years. Fix up the roof now and stop the leakage—in money and roof.

Use it on new work for jointing and 'round your skylights—follow it with a coat of American Seal Roof Paint—the best made—and the top of your house is safe for years. *Prices for the asking.*

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TROY, NEW YORK
WESTERN AGENTS Dept. A. { J. L. Perkins & Co., 235 Lake St., Chicago. Stockhoff Supply Co., 107 N. Main St., St. Louis.

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Inquire of Owner
Daniel Stern, 69 Dearborn St.
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By advertising and using THE POWERS AUTOMATIC CHIMNEY TOPS
They make chimneys draw, give tinners employment making stocks, and give the dealers profit.
Sold by Hardware Jobbers and Dealers.
Made only by POWERS BROS. STREATOR, ILL.
This cut free to dealers.

OSGOOD STANDARD SCALES
No BETTER Scale is made. The quality is absolutely guaranteed.
"Osgood on the Beam"
In your pocketbook. Write for catalogue N and BEST prices. Our prices are RIGHT. We feel that we can save you money.
Osgood Scale Company
Binghamton, N. Y.

WE MAKE
Stove, Tire and Carriage Bolts—Rods, Rivets, Machine Screws, Nuts, Hinge Pins and Special Bolts, Screws and Nuts of all descriptions
THE ATLAS BOLT & SCREW CO.
Cleveland, O.

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

Black Diamond Files and Rasps
PERFECT—ALWAYS
TWELVE MEDALS AWARDED AT INTERNATIONAL EXPOSITIONS
G. & H. BARNETT CO.
Black Diamond File Works, PHILADELPHIA, PA.

NICHOLSON FILE CO.
GENERAL OFFICES: PROVIDENCE, R. I., U.S.A.
Manufacturers of

FILES AND RASPS
NICHOLSON KEARNEY & FOOT ARCADE AMERICAN GREAT WESTERN McCLELLAN EAGLE J. B. SMITH "X, F" GOLD MEDAL

GENEVA TOOL CO. Hand Agricultural Tools Geneva, O.

Regardless of price the value of IDEAL Boilers and AMERICAN Radiators is absolutely superior—a full measure. Twelve Warehouses—Quick shipments.

AMERICAN RADIATOR COMPANY
LAKE AND DEARBORN STREETS, CHICAGO

SPERRY'S STEAM KETTLES

Made from very thick metal, without Stay Bolts, Joint packed in such a manner as to never need repacking. A little higher priced than some, but they are safe and tight.

D. R. SPERRY & CO. Hollow-Ware Founders, BATAVIA, ILL.

See Page 55

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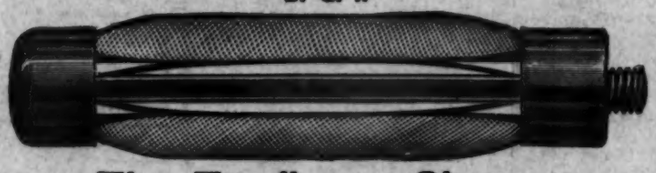
B. G. I.



The Tomlinson Cleaner

Is the most satisfactory means of thoroughly cleaning a shot gun ever invented. It will absolutely remove rust spots and keep a gun in perfect condition. Will fit any standard rod and any gun. The Tomlinson is cheap at $1.00 for it will last a lifetime with proper care. New wire sides furnished.

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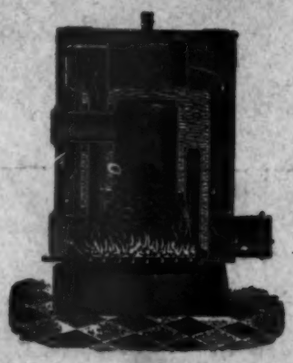

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For Steam and Hot Water Heating Surface Burner. For Soft and Hard Coal. Portable and Brickset.
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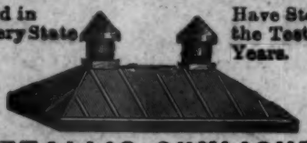
Sold in Every State. Have Stood the Test of Years.



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Made in 10 Styles and 500 Sizes

"THE ILLINOIS" are the best skylight made. We also manufacture Cornices, Finials, etc. Send for Handsome Illustrated Catalogue. Ribbed skylight glass furnished at very lowest prices.

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Illustrated and described in our new Catalog entitled "The Clinching Argument."

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SPORTSMEN WHO START RIGHT—BUY

PETERS FACTORY LOADED SHELLS

Loaded with Smokeless, Semi-Smokeless or Black Powder, for

FIELD, COVER OR TRAP SHOOTING.

They are used by experts and amatures and are successful everywhere.

PETERS CARTRIDGES have made and hold the World's Records for target practice and hunting. Won the Indoor Rifle Championship of the United States for six consecutive years. At the Sea Girt meeting, 1903, won first place in Rifle, Revolver and Pistol matches. Successful shots use Peters ammunition. Progressive dealers sell it. Books for sportsmen Free.

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TRADE MARK

Moore's Stoves Always Please

Moore's Fire Keeper

Air-Tight
Ground Joints
Guaranteed to burn
Any Kind of Coal
And hold fire 48 hours
Perfect Ash Pan
Another one of the

EASY LINE TO SELL

JOLIET STOVE WORKS,
JOLIET, ILLINOIS.

HOLBROOK, MERRILL & STETSON, San Francisco, Los Angeles, Sacramento.

L.-W. Cooks - Ranges - Heaters

LEADER NO. 27
Also made with open front.

FULL LINE GAS HEATERS

EBONY OAK
Nos. 12-14-16-18-18½

Moderate Priced Oaks
Up-to-Date - Full Size
Beautiful Designs

Special Designs on Hot Blasts. Our big line of Cooks will interest you.

You want our Catalogue, Prices and Goods.

Lattimer-Williams Mfg. Co.

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THE MONARCH OF THEM ALL!

THIS up-to-date Oak Stove is the latest production on the market made in the newest and most modern stove foundry in America. Embodies practical ideas of skilled labor. Having every labor-saving appliance and modern equipment we challenge competition. The **Royal Oak** has XXth Century Ornamentation and is absolutely air-tight and the price—well if interested write to us and learn a thing or two about our Steel Ranges, Steel Cooks and Hot Blast Heaters. : : : : : : : : : :

ROYAL STOVE & RANGE CO.
GREENVILLE, OHIO

Makers of the Most Modern Stoves in the Newest Stove Foundry.

DO NOT BE DECEIVED BUT BUY THE

"KING BEE AIR BLAST"

Why?

BECAUSE—It is guaranteed to be strictly air tight and will always remain so.
BECAUSE—It is mounted with our famous anti-buckling ring, which prevents the drum from warping.
BECAUSE—It has an exposed fire pot, an essential feature to insure long life.
BECAUSE—It has a broad deflecting ring that heats the base as hot as any hard coal base burner.
BECAUSE—It has a large ash pan; genuine screw registers, (no make shift.)
BECAUSE—It is unsurpassed as a gas and smoke consumer.
BECAUSE—It has our original perforated puff preventor, which absolutely eliminates all puffing or explosions.
BECAUSE—It burns soft coal, hard coal, slack, lignite or cobs.
BECAUSE—It is the best made; best mounted and the handsomest stove of this class in the market.

If your name is not on our books, place your order without delay, at least for samples.

Write for prices and testimonials.

Nos. 114, 116, 118, 120.

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Phenominal—nothing short of it.

THE DORCAS GOOD LUCK GAS STOVE

[For Natural Gas.]

FULL RETURN FLUE. LONGEST FIRE TRAVEL. POWERFUL CIRCULATION. LARGE EXTERNAL AND INTERNAL RADIATION. ALL CAST IRON CONSTRUCTION. HIGH POWER ONE PIECE BURNER. BEAUTIFUL ILLUMINATION. POSITIVE VENTILATION. IT DOES GOOD WORK AND IT NEVER SWEATS.

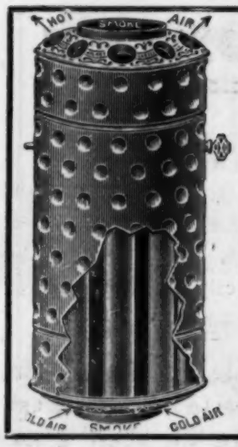
The Dorcas Good Luck has been adopted by the Baltimore & Ohio R. R. and by the West Penn. Division of the Penna. R. R. as their standard Station Heaters, when gas is used for fuel. This action was taken by the above corporations after exhaustive competitive tests conducted by their Heat and Light Department.

The Dorcas Good Luck Wins its own battles and makes its own friends.
Its chief merits are Durability and Economy
Do these Qualities appeal to you?

The PITTSBURGH STOVE & RANGE CO.

PITTSBURGH, PA.

South Western Agency, The Tuttle-Allen Stove Co., Kansas City, Mo.



THE NEW ERA RADIATOR

is the best seller on the market today.

WHY
- Gives the most heat.
- Saves the most fuel.
- Easy to adjust
- Makes no dust nor dirt.
- Most reasonable in price.

Special Announcement. In addition to our well known styles of radiators for back of stoves and heating upstairs rooms, we now have a

FURNACE ATTACHMENT

to place on smoke pipe in cellar by which waste heat can be sent to any room in the house without disfiguring pipes.

Descriptive matter with your imprint for trade distribution free. Write for particulars.

WILMOT CASTLE CO.

77 ELM STREET ROCHESTER, N. Y.

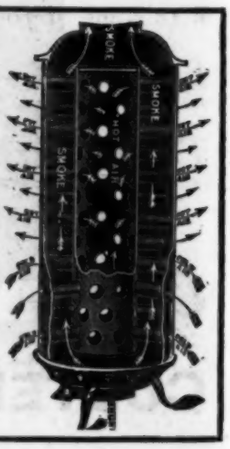
4,866 sq. ins.

The Part that Does the Business.

Sell The Radiator That Radiates

Take a common sense view of heating. If you wish to heat a poker you hold it OVER the fire, not at the SIDE.

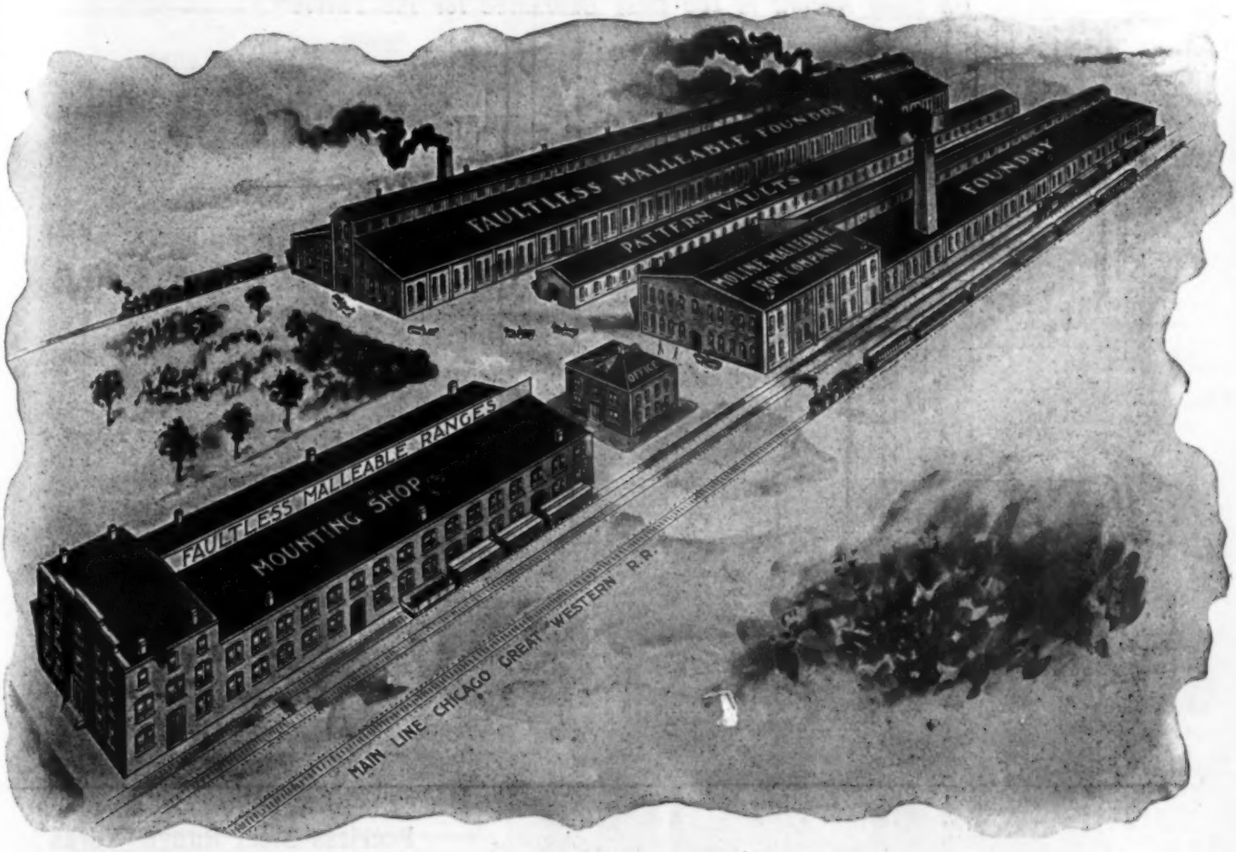
We hold 96 to 120 pokers over the fire, each having a hollow air space in center, through which a current of air rapidly passes, sending the heat to all parts of the room, getting results which no DRUM or SIDE HEATER can give. Advertised in 82 family papers and magazines, bringing 18,000 inquiries about the Rochester Radiator. Those from YOUR town are referred to YOU while you carry our goods. Thus we sell them to you and then sell them FOR you. A postal will bring you full description and proofs from men in the trade who have sold thousands of them. Made in 12 styles and sell from $2.00 up. We will remember you with a Souvenir later, watch out for it. Address



EASY

ROCHESTER RADIATOR CO.

No. 120 Furnace St. ROCHESTER, N. Y.



To Merchants with Money.

Cash with Order: Whether you're rated at "two hundred thousand dollars with unlimited credit" or whether you're "one of them blank four fellows" makes no difference; your cash will fetch some prices on Malleable Steel Ranges that will cause you to wink with pleasure at the prospect of getting whatever Malleable Range trade there is floating 'round your brick-field!

Ever Stop to Figger why so many of your ought-to-be customers buy Ranges by Mail? Mebby they've found that cash-with-order means more than it seems. Why not give 'em a little turn for their money with some of your own coin?

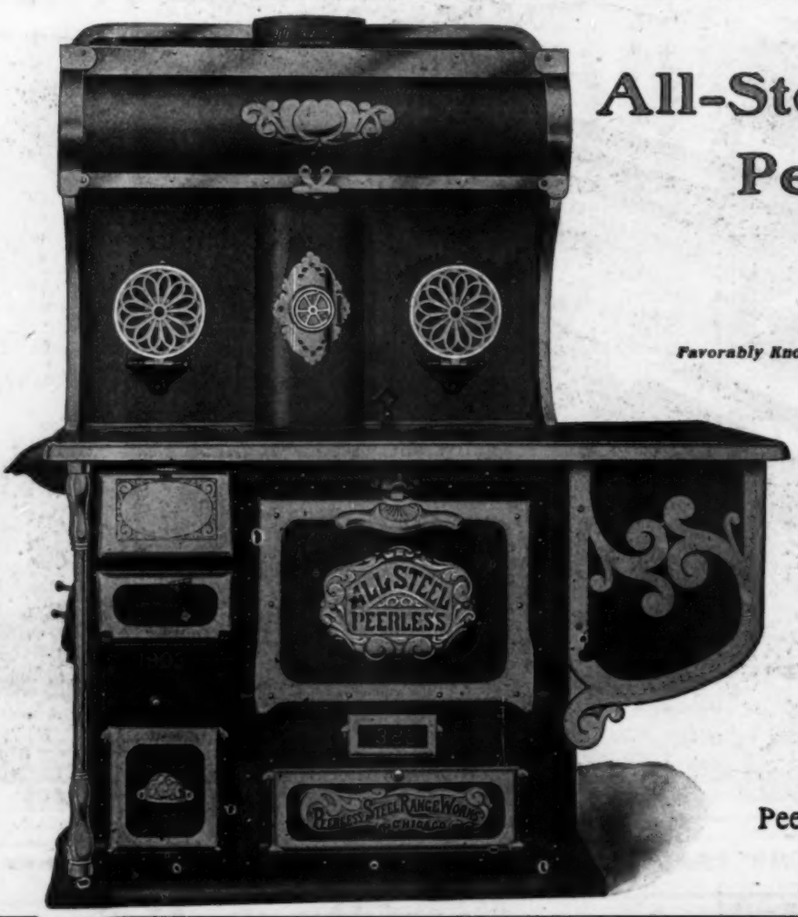
Cash is King. Leastwise that's what the men say who pay cash. Write for particulars.

First Shipment made subject to dealer's inspection and approval.

The Faultless Manufacturing Company

NOW LOCATED IN ITS NEW MALLEABLE FOUNDRY AT SAINT CHARLES, ILLINOIS

"A Good Record is the Best Guarantee for the Future"



All-Steel Peerless Ranges

Favorably Known for Over Nine Years

Malleable Steel Top Plates, (ground smooth and bright)
Malleable Doors and other fittings,
Steel-Asbestos-Steel Flue Bottom,
Massive Fire Box,
Steel Oven Shell,
Extra Large Ovens,
Extra Large Reservoirs,
Pan for elevating wood fire,
Pouch feed and blue steel (without extra charge)

Catalogue Shows These and Other Good Features.

Peerless Steel Range Works

CHICAGO.

Boomer Furnace

REGARDING

Boomer Furnaces

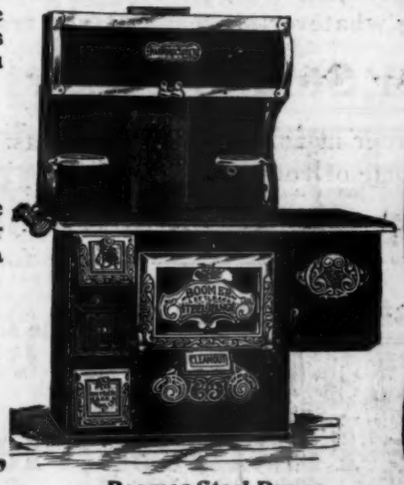
OR

Boomer Steel Ranges

We want to state in strongest terms possible that if you want the

HEAVIEST,
MOST DURABLE,
MOST ECONOMICAL

and easiest to take care of Furnace or Steel Range buy a **BOOMER.**



Boomer Steel Range

Neither time nor money is spared to make them the Best.
Buy Boomers and save your coal bills.
We invite investigation.

THE HESS-SNYDER CO.,

Manufacturers MASSILLON, O.

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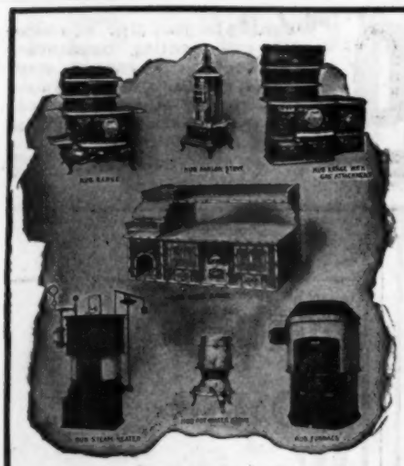

A few specimens of the extensive line of

HUB RANGES AND HEATERS

Manufactured and warranted by

SMITH & ANTHONY CO

BOSTON, MASS.

Send for descriptive circulars.

BURTON'S FUEL ECONOMIZER

Attached to a stove pipe saves more fuel and radiates more heat than any other stove pipe attachment

AN EASY SELLER.

Assertions Backed by Guarantee.

The W. J. BURTON CO., Detroit, Mich.

ANDREW SNYDER, ALDEN, IA., WRITES:

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Every hardware dealer and especially every tin and sheet metal worker should not be without it."

The Champion Hot Water Combination Heaters

They Fit Any Furnace

Base section when used without ring sections.

Ring section

These Heaters are made in five sizes diameter, and from 100 to 7 0 square feet radiation capacity.

Will heat those cold rooms or an addition to the building. Will increase the capacity of any furnace. Are cheaper than coils and will do more work.

Write for new circular. Manufactured by

FRANK D. STOLZ

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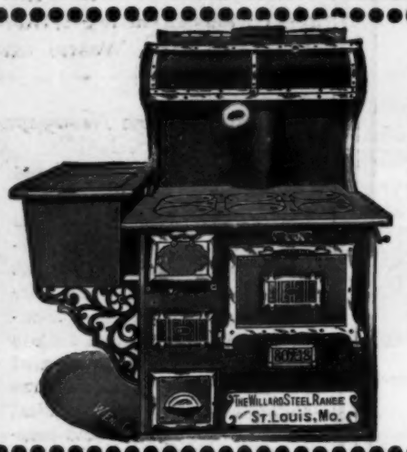

Some Steel Range Makers

put thousands into expensive cooking exhibits. Others blow in their profits on bizarre experimentation, We put **every dollar right into the Willard Steel Range itself.** That's what makes it so good. That's what makes it a quality seller. It's the best price seller on the market, too. Send for our price to the trade and then compare it with that asked by the catalogue houses for similar goods. If it is not enough lower to enable you to make a handsome profit and still undersell the catalogue houses just pass us up.

Wm. G. Willard, Mfr.

619-621 N. Fourth Street, ST. LOUIS, MO.

Money

in retailing Steel Ranges is made not by handling something "just as good" as the "other fellow' has, but in putting in a line of goods that are a good deal better.

Champions

ALSO MARQUARTS

possess every feature of genuine merit known to modern steel range construction and have one feature found in no other range on the market in the shape of an additional flue, which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

CHAMPION STEEL RANGE CO. CLEVELAND OHIO.

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogue.

MILWAUKEE, WIS.

ANYONE

can see the advantage of the Tubular Radiator in the

Independent Gas Heater

That's why they are so easy to sell—and why they are so satisfactory when in use. You certainly should not miss this.

Manufactured by
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CLEVELAND, OHIO

Eastern Representatives
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Assorted packages put up expressly for the retail trade.

ONE POUND—4 SIZES.
¼ lb. each size.

North Carolina $2.00
Wyoming $1.70

4 ½ x 6	2 ½ x 3
2 ¾ x 3 ¼	2 x 5

TWO POUND—8 SIZES.
¼ lb. each size.

North Carolina $3.80
Wyoming 3.25

2 x 3	2 ¾ x 3 ½	2 x 4
2 ½ x 3	3 x 3	2 ½ x 5
3 x 4 ½	4 ½ x 6 ½	

THREE POUND—12 SIZES.
¼ lb. each size.

North Carolina $5.75
Wyoming 4.75

4 ½ x 5	2 ¾ x 4	2 ¾ x 4 ½
2 x 4	3 x 3	2 ¾ x 2 ¾
2 ½ x 3	5 x 6 ½	2 x 3
2 ½ x 5	2 x 4 ½	2 ¼ x 3 ¼

ABOVE PRICES NET. NO DISCOUNT.

EUGENE MUNSELL & CO.

CHICAGO, 117 Lake St. NEW YORK, 218 Water St.

LAWLER'S VOLCANO
Gas Burner No. 5.

FOR HEATING ROOMS.

This is the most powerful as well as the most perfect gas burner for heating rooms ever placed on the market.

It works equally well with natural or illuminating gas. It is the only gas heating burner that will not light back. It is the only gas heating burner that produces a perfect combustion, and is absolutely free from odor.

When placed on a gas fixture it deflects the heat to the floor of the room, where it does the most good. It produces more heat from the same amount of gas consumed, than any other heating burner made.

Get the agency for your town. It is a specialty that sells at sight. Sample sent postpaid for 75 cents.

Patents Allowed and Others Pending.

LAWLER REGULATOR CO., 20 W. Houston St., New York City.

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Is beyond all doubt the best book published on practical house heating.

It contains the plans and essays on heating a house submitted in THE AMERICAN ARTISAN House Warming competition for $300.00 prizes, and is in fact

An Encyclopedia of the Most Modern and Improved Practical Methods of Heating a House by Steam, Hot Water and Warm Air.

A Leading Western Newspaper says:

"The volume is a well-bound and artistically printed and illustrated volume of nearly 300 pages, and contains some masterly essays on steam heating, hot water heating and warm air heating. Nearly every prominent authority in this field is quoted, and an application of principles and improvements suggested covers all technical details in a simplified and practical way. House plans and diagrams accompany the subject matter, which deals specifically with radiation, combustion, ventilation, prices, estimates and the best and latest methods for placing, connecting and utilizing the apparatus adopted."

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For sale by all booksellers or the Publisher

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69 Dearborn Street,
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FURNACE OR BOILER?

If so, you know what it is to operate a PERFECT Heater.

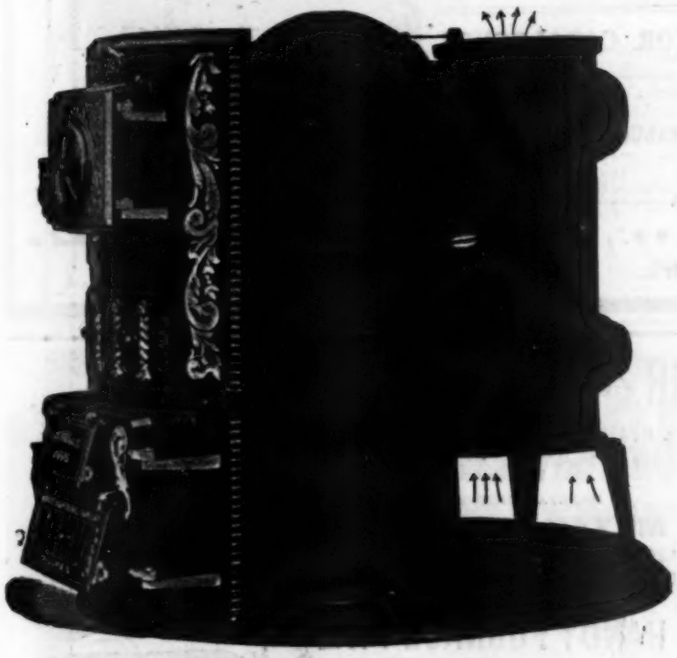
Thousands in use in all parts of the U. S.

Write for Catalogue and Prices.

L. J. MUELLER FURNACE CO.

ESTABLISHED 1857

191 REED STREET : : : MILWAUKEE, WIS.



The Crown "Low Down" Warm Air Furnace.

HUSTLERS

Are Always in Demand.

There are drones and workers in the furnace world as well as elsewhere.

THE CROWN FURNACE

"Low Down" Type, Made in 4 Sizes

is a "hustler." It is made extra heavy throughout, and will stand severe usage.

It has an extremely large amount of radiation for the size of the firepot used.

It can be very easily cleaned.

ASK FOR OUR 1903 FURNACE BOOK

March-Brownback Stove Co.

POTTSTOWN, PA.

Can you afford

Mr. Dealer, to risk your business reputation by recommending cheap, inferior and unsatisfactory furnaces? Particularly as such a course is entirely unnecessary when you can secure an agency for

Floral City Furnaces

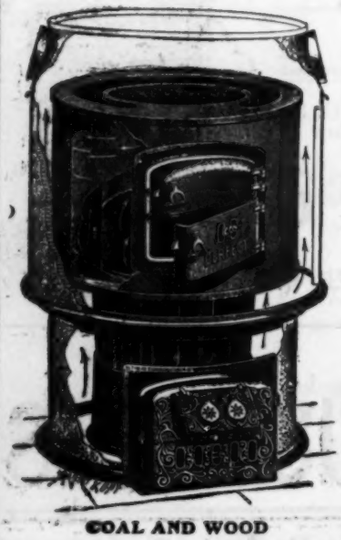
which are made with perfect castings by skilled workmen under careful supervision.

Monroe Foundry & Furnace Co.

Monroe, Mich.

Richardson & Boynton Co.'s

"PERFECT" FURNACES



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WEIR ALL STEEL GAS AND SOOT CONSUMING FURNACE.

THE HEAVIEST STEEL FURNACE MADE.

Absolutely Gas and Dust Tight. A Great Heat-Producer, but a Fuel Saver.

MANUFACTURED BY

THE MEYER FURNACE CO.

1300-1304 S. Washington St.,

Send for Catalogue. PEORIA, ILLS.

"The HANDY FURNACE PIPE"

Made with a View of Being Safe.

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

MANUFACTURED BY

F. MEYER & BRO. CO.

Send for Catalogue. PEORIA, ILLS.

Emperor Furnaces

FOR WOOD.

Simple, Safe, Durable. Economical in Fuel.

The Best and Cheapest Line of Wood Furnaces . . . Furnished for either Brick or Galvanized Iron Casing.

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Bergstrom Bros. & Co.

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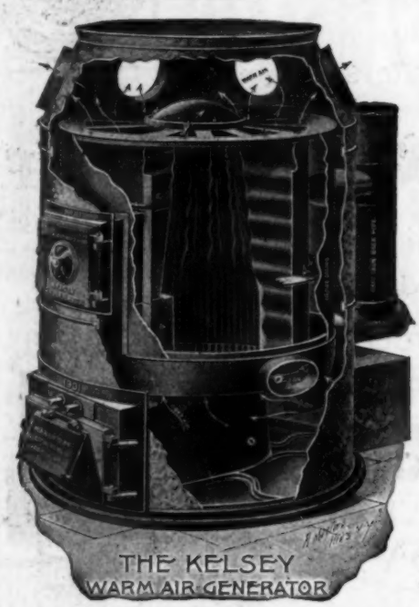
THE KELSEY



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THE STANDARD HIGH GRADE HEATER OF THE WORLD

Has greater heating surfaces than any other heater with same size grate. Warms air by the best method and forces it to distant or exposed rooms.

23,000 IN USE
600 DEALERS SELLING

COOK & VAN EVERA CO.
38-40 LAKE ST. CHICAGO
WESTERN SELLING AGENTS

KELSEY HEATING CO.
MAKERS
NEW YORK OFFICE 156 FIFTH AVE.
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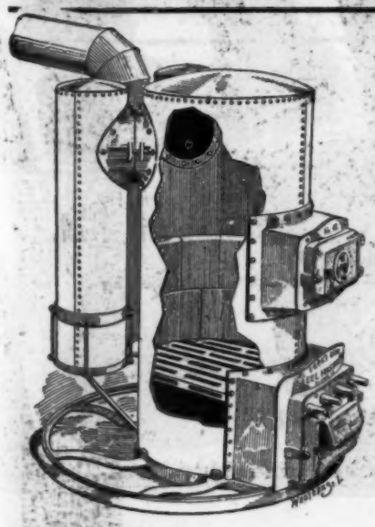
MONCRIEF

WARM AIR FURNACE.

Specialties
- All Cast Iron.
- Monc ief Duplex Grate.
- Large Radiating Surface.
- Double Fire Pot.
- Large Grate Surface.
- Top Return Flue.
- Simplicity, Durability, Economy, Cleanliness in Use.

HENRY & SCHEIBLE CO.
6-8-10 Long St., Cleveland, O.

"It is true that advertising will not put merit into poor merchandise, but good merchandise often becomes poor for the want of good advertising."
—*Some Essential Oils for Advertising.*



The secret of the great success of the

Front Rank

lies in the furnace itself. Every detail of its manufacture is carefully watched by the best furnace makers in the United States. It is a perfect furnace from start to finish and contains all the latest improvements.

These furnaces burn hard or soft coal or coke. We also make wood burning furnaces.

Send for our catalogue, it will give you a better idea of what we make.

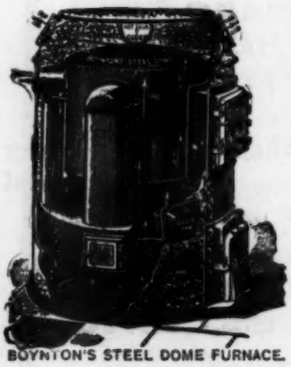
FRONT RANK STEEL FURNACE CO.,
2301 to 2309 Lucas Av., ST. LOUIS, Mo.

1903

The Old Reliable

Manufacturers of
Up-To-Date Heaters

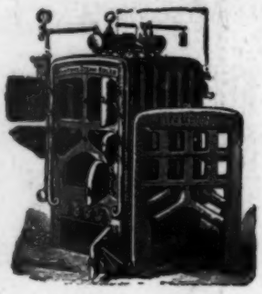
Steam, Hot Water and Hot Air



BOYNTON'S STEEL DOME FURNACE.

The Usual Fall Rush of orders for Heaters is now on.

Please place your Orders as early as possible.



NEW CATALOGUES AND PRICE LISTS NOW READY.

The BOYNTON FURNACE CO.

NEW YORK CHICAGO

1903

Royal Heaters.

MANUFACTURED BY THE

HART & CROUSE CO.

UTICA, N.Y.

ALL THE LEADING LINES OF

STEAM, HOT WATER & HOT AIR,

FOR HEATING ALL CLASSES OF BUILDING.

235 WATER ST. N.Y. COLUMBUS, O. BRANCHES. 29 LAKE ST. CHICAGO. ST. LOUIS.

The man who does not advertise, says the Ashland, O., Gazette, simply because his grandfather did not, ought to wear knee breeches and a queue.

The man who does not advertise because it costs money should quit paying rent for the same reason.

The man who does not advertise because he tried it and failed, should throw away his cigar because the light went out.

The man who does not advertise because he doesn't know how himself, ought to stop eating because he can't cook.

The man who doesn't advertise because somebody said it did not pay, ought not to believe that the world is round because the ancients said it was flat.

QUAKER MFG. CO.

CHICAGO HEIGHTS, ILLINOIS.

MANUFACTURERS OF WALL REGISTERS FURNACE REGULATORS

WARM AIR AND COMBINATION HOT WATER HEATERS

Many New and Desirable Features

The Best Equipped Factory in the Country Goods Made on Co-operative Plan

FULLY WARRANTED

LIVE AGENTS WANTED

SAY YOU SAW IT IN "THE AMERICAN ARTISAN."

SAY YOU SAW IT IN "THE AMERICAN ARTISAN."

HEIGHT OVER ALL 63 INCHES.

The STANTON SEAMLESS WARM AIR HEATER

is the only Heater that is made absolutely proof against the leakage of smoke and gas from the fire-box into the warm-air pipes, and that will remain so.

Built on Strictly Scientific Principles—The BEST for the Dealer.

ECONOMICAL in the use of FUEL.

ESPECIALLY recommended for SOFT COAL and SLACK.

Perfect Combustion—Easy to Operate.

Write for catalogue and secure territory.

We carry a LARGE STOCK of REGISTERS, PIPE and FITTINGS.

The STANTON HEATER COMPANY

MARTINS FERRY, OHIO

The Demand

for our catalogues is a heavy one, as the trade are realizing that the Forbes has marked improvements over any warm air heating furnace now in use. Let us send you a catalogue?

TUBULAR HEATING & VENTILATING CO., Philadelphia, Pa.

THE SALE OF THE

TORRID ZONE FURNACE

during the first three months of 1903 has exceeded that of any other year in the corresponding three months by about six to one. If you are not on our list, you had better look us up and you will see what this great advance in the demand means.

We are getting out a new Catalogue that has many things of interest in it for the dealer. They will be ready for mailing by the 20th of this month—free for the asking.

Lennox Manufacturing Co. Cor. Ninth Ave. and Frederick St., MARSHALLTOWN, IOWA.

FARWELL, OZMUN, KIRK & CO., St. Paul, Minn., Northwestern Distributors.

It Will Pay You

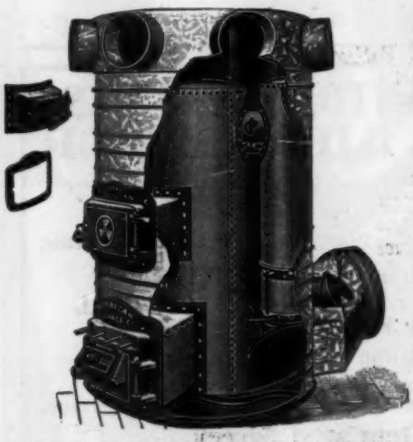
to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application.

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

ADDRESS

DANIEL STERN

69 Dearborn St., - CHICAGO



Burn Hard or Soft Coal or Coke. Large Doors.

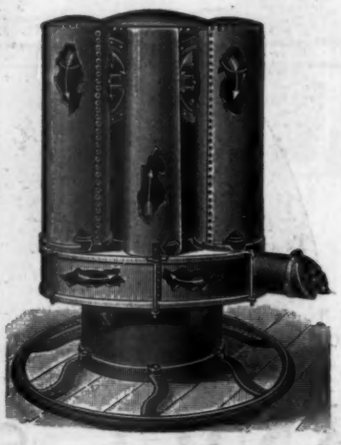
REASONS

Why the American Furnace Should Receive First Consideration

It is strictly smoke and gas tight.
It is made of heavy wrought steel and will not crack.
It has more effective heating surface than any furnace made.
Its surfaces are all smooth, and no dust receptacles.
It burns either hard coal, soft coal, coke, wood or natural gas.
It can be managed by the average house help.
Its surfaces are all perpendicular, therefore a powerful heater.
It heats the largest volume of air with a given amount of fuel; thereby furnishes warm air instead of hot air.
It is very powerful, durable and economical.
Its surfaces are all curved, which prevents buckling.
It is very closely riveted, tight like a boiler.
It has a very large feed door, so that large lumps of coal and wood may be used.

The American Furnace Co.

1911-13 Pine Street, ST. LOUIS, MO.



Large Radiators, Easy to Clean Out.

Write for prices and secure the agency before the other fellow gets it.

100
Tinners' Patterns

THE AMERICAN ARTISAN FULL SIZE PATTERNS

Comprise patterns for a full line of tinware, in numerous sizes, square and round elbows, cut-offs, etc. These full-size patterns, numbering upward 100, are printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. The list contains the following patterns:

Tea Steeper
Two-pint Tea Pot
Three-pint Tea Pot
Four-pint Tea Pot
Five-pint Tea Pot
One-quart Coffee Pot
Two-quart Coffee Pot
Three-quart Coffee Pot
Four-quart Coffee Pot
Five-quart Coffee Pot
No. 1 Coffee Boiler.
No. 2 Coffee Boiler
No. 3 Coffee Boiler
Lamp Filler
One-pint Dipper
One-quart Dipper
Two-quart Dipper
Four-quart Flaring Pail
Six-quart Flaring Pail
Eight-quart Flaring Pail
Ten-quart Flaring Pail
Twelve-quart Flaring Pail
Fourteen-quart Flaring Pail
Ten-quart Dish Pan
Twelve-quart Dish Pan
Fourteen-quart Dish Pan
Sixteen-quart Dish Pan
Dinner Bucket
Five-inch T-Joint
Six-inch T-Joint
Eave Trough Mitre Joint
"Snap" 2-inch Conductor Elbow
Cullender
Two-inch Square Elbow
Two-and-a-half-inch Square Elbow
Three-and-a-half-inch Square Elbow
Four-and-a-half-inch Square Elbow
Five-and-a-half-inch Square Elbow
Six-and-a-half-inch Square Elbow
Seven-and-a-half-inch Square Elbow
One-pint Funnel
Two-pint Funnel
Three-pint Funnel
Four-pint Funnel
Small Milk Strainer
Large Milk Strainer
Ten-quart Milk Pail Breast
Fourteen-quart Milk Pail Breast
Two-inch Four-piece Round Elbow
Three-inch Four-Piece Round Elbow
Four-inch Four-Piece Round Elbow
Five-inch Four-Piece Round Elbow
Five-and-a-half-inch Round Elbow
Six-and-a-half-inch Round Elbow
Seven-and-a-half-inch Round Elbow
Small Grocers' Scoop
Medium Grocers' Scoop
Large Grocers' Scoop
Apple Corer
Oval Foot Bath
Oval Pudding Pan
Half-gallon Can Breast
One-gallon Can Breast
Two-gallon Can Breast
Three-gallon Can Breast
Half-pint Measure
One-pint Measure
One-quart Measure
Half-gallon Measure
One-pint Basin
Two-pint Basin
Three-pint Basin
Four-pint Pan
Six-quart Pan
Ten-quart Pan
Small Cake Pan
Medium Cake Pan
Large Cake Pan
Small Wash Basin
Large Wash Basin
Sprinkler Breast
Four-gallon Churn
Five-gallon Churn
Small Dust Pan
Large Dust Pan
Five Sizes Funnel Patterns
Oval Dinner Bucket
Rain Water Cut-off
No. 7 Boiler Cover
No. 8 Boiler Cover
No. 9 Boiler Cover
No. 7 Boiler Bottoms
No. 8 Boiler Bottoms
No. 9 Boiler Bottoms

THE AMERICAN ARTISAN full size patterns are a great convenience, and in no other way can they be obtained at so small a cost. Price, sent postpaid for the

FULL SET OF 100 PATTERNS $1.00.

DANIEL STERN, 69 Dearborn Street, CHICAGO, ILL.

GILT EDGE FURNACES

THE MOST COMPLETE LINE MANUFACTURED FOR ALL KINDS OF FUEL. DURABLE, ECONOMICAL, GAS TIGHT.

The Jones Side-Wall Register

The register having full capacity of hot air pipe for large living rooms or for heating a room on the first floor and extension to second. Has a face of neat design and not a hole in the wall when open. Has a regulator which holds the damper permanently in position. Can not get out of order. Double safety box included in each register.

Send us sketch for plans of latest method of heating with *GILT EDGE FURNACES* and *JONES REGISTERS*, least work, least pipes, least waste of heat, most economical.

R. J. SCHWAB & SONS COMPANY

Manufacturers of Gilt Edge Furnaces and Northwestern Distributors of Jones Side Wall Registers. MILWAUKEE, WIS.

SMITH'S LITTLE GIANT

Made in four sizes. Can be placed in any furnace. It has no joints and may be used to heat from one to four rooms or in heating tanks.

THE CHAS. SMITH CO.

122 Lake Street CHICAGO

The Aeolipyle made by the AEOLIPYLE CO., 237 Water St, New York—saves coal—increases heat—keeps temperature even—prevents escape of coal gas, reduces labor, avoids sifting ashes. Can be used with furnace—hot water heater—on pressure boiler—stove—range. **That's All**

CHICAGO FURNACE SUPPLY CO.

Pipe, Fittings, Elbows, Registers, Etc.

64-66 W. MONROE STREET, CHICAGO.

Not in the Association.
Our Prices Have Not Advanced.
Unsurpassed Equipment.
Catalog upon Application.

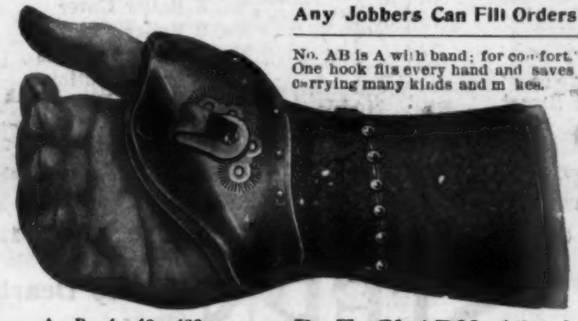
Any Jobbers Can Fill Orders or Dealer Can Order of Factory

No. 4

CLARK'S BIG 5

No. 40

All Good Sellers



No. AB is A with band; for comfort. One hook fits every hand and saves carrying many kinds and sizes.

BUY CLARK'S

No. A

Most Goods for the Least Money

No. 400

Clark's Biggest Sellers

	A.	B.	4.	40.	400.
Retail,	35c	50c	15c	10c	25c.

R. F. CLARK, 185 Jackson Blvd., Chicago

Is This the Latest and Best

Wall Register?

Wall Register.

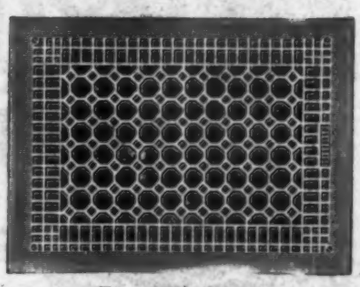
Dealers who have seen it say

"YES"

Others are not to be compared with it.

Buy a sample and see for yourself.

Our Floor Register also is first class.



Floor Register.

L. J. MUELLER FURNACE CO.

191 REED STREET ESTABLISHED 1867 MILWAUKEE, WIS.

Symonds Wall Register

is the Simplest, Cheapest, Strongest, Quickest Installed, Easiest Operated, Best in Principle, Lightest for Shipment, Most Practical.

Write for Circular and Free Sample.

Shipments Prompt Satisfaction Sure.

SYMONDS MFG. CO., East St. Louis, Ill.

THE AUER WALL REGISTER

Perfected and Tested. Not an Experiment. The only one that has the cosey appearance of the fireplace. The only one that is practical for a foot warmer.

The only one that closes tight, having no grating over front to catch dirt and dust.

Write for Catalogue.

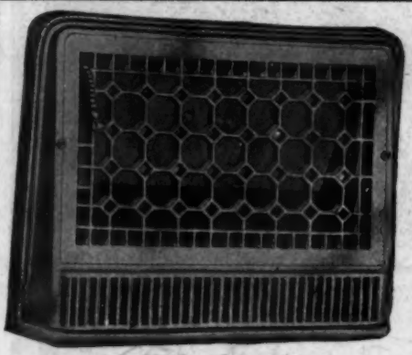
The AUER REGISTER CO., Toledo, O.

MAIL ORDER DEPARTMENT

F. L. SHAFER CO. MFRS. ADVERTISING SPECIALTIES. 269 DEARBORN ST. CHICAGO, U.S.A. PHONE 680 HARRISON.

SEND FOR CATALOGUE B.

J. T. Walbert & Son, Paducah, Ky., write: "Our advertisement in your paper proved effectual"



FERROSTEEL SIDE WALL.

EXAMINE GENUINE

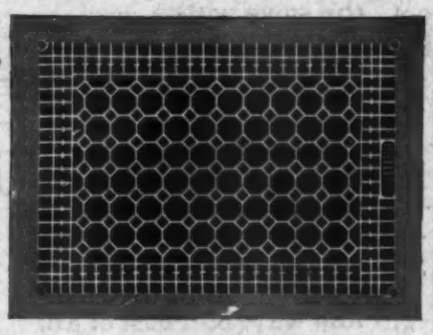
FERROSTEEL REGISTERS

AND YOU WILL

BUY NO OTHER

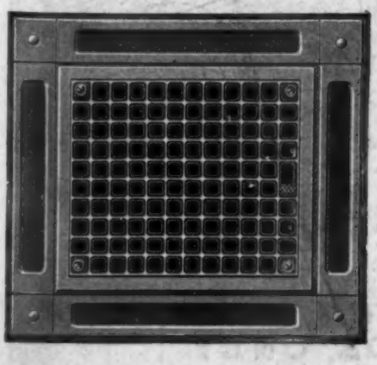
They are

THE ABSOLUTE BEST
MECHANISM PERFECT
FINISH SUPERB
PRICE LOWEST
TERMS EASIEST



FERROSTEEL FLOOR

FERROSTEEL COMPANY, CLEVELAND, OHIO



The H. & C. WROUGHT STEEL REGISTERS

H. & C. Registers are packed separately in strawboard boxes, and being very shallow, take up little shelf space. . . . H. & C. Registers will not break or warp.

SAVE SPACE

SEND FOR CATALOGUE. Just Issued.

THE HART & COOLEY CO. Manufacturers, NEW BRITAIN, CONN. General Sales Agents, Stanley Works, New Britain, Conn. 19 Chambers St., New York. 19 Lake St., Chicago.

ROUND OAK
STANDARD of AMERICA

It is, of course, a fact that new heating stoves will constantly continue to be born and put on the market, and that they will save "half the fuel," "give more heat," "burn the smoke" and the "air" (*sic!*), and do so many other wonderful things that, really, it seems rather foolish to contemplate for a single moment such a "back number" as the

Genuine Round Oak,

the stove with a good character, and a record and sale unequaled in the history of stove making. However, notwithstanding, the Round Oak continues to flourish and consume fuel—enough to warm up according to the weather—in its own sterling way, but, best of all, *it wears—it lasts.* Year after year it "comes up smiling" ready for business, without a crack or a wrinkle. We have a little unoccupied territory left. If no agency for Round Oaks in your town, you ought to write us at once. Next year will soon be here.

Estate of P. D. Beckwith

Fred E. Lee, Manager

Dowagiac, Michigan

MAKERS OF GOOD GOODS ONLY

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS, AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00. IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00.

Address all Letters, communications and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,

69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, OCTOBER 24, 1903.

The Parcels Post Bill.

THE "Postal Progress League" is the name of an organization composed of the catalogue house interests for the express purpose of forcing the Parcels Post through the coming Congress.

This organization is now at work. Not on the voters of this country who are supposed to pass on the laws made, but on those in high places whose influence directly or indirectly is so powerful in Washington.

This promotion of the Parcels Post sentiment is not to be among the masses as was at first supposed, for that would be suicidal. The masses can see the absolute folly of this unbusinesslike procedure. This league has concluded that they will be able to do more by making a still hunt as in the rural delivery case.

They dare not come out in the open and make a feature of the Parcels Post, leaving the people to decide by a vote, and they, better than anyone, know it.

Your congressmen and your senators are the men they wish to educate.

They know that your representatives in Congress will, as a result, come to Washington without positive instructions of any kind on the question.

They will give him statistics to show how far behind the procession we are on postal affairs. They will show that several foreign countries are delivering package by mail at a nominal price.

They will be supported in any manner and every form by business houses "who buy most stamps"—catalogue houses.

You cannot afford to take any chances on this threatened disaster. You must see that the right people know just how you feel.

In another column you will find a reduced *fac-simile* of a petition they are sending out in Minnesota. Why not have a typewritten copy made of this petition and circulate it among the dealers of your town.

If you do this now it will amount to something.

If you stand around and twirl your thumbs, we do not honestly think the "holler" you will make after this bill becomes a law will accomplish anything more than a dead bug in a last year's bird's nest.

Hail to the Pecan.

THIS dainty dessert will be held in special honor at the second annual convention of the National Nut Growers' Association, which will be held in New Orleans, La., from Oct. 28 to 30, 1903, with headquarters at the Hotel Denechaud. Wm. Nelson, New Orleans, La.; Chas. E. Pabst, Ocean Springs, Miss., and B. M. Young, Morgan City, La., will unbosom themselves on the subject, "What We Know About Pecans." Prof. H. E. Van Deman, Washington, D. C., will pour forth streams of eloquence on the subject, "Grafted and Budded Pecan Trees vs. Seedlings." H. S. Watson will journey all the way from Bloomington, Ill., in order that his deep orotund may inform the expectant world on "The Outlook for Commercial Pecan Growing."

Sam H. Jones, the Mound City, La., veteran, will throw the meeting into alternate pulsations of laughter and tears as he tells of about "Twenty-five Years' Experience with Pecans," and entomology will take her turn at the bat when Prof. H. A. Morgan, Baton Rouge, La., tells about "Pecan Insects." We all love the pecan and nowhere are its virtues held in greater repute than in good old Louisiana, and hence all will be interested in the paper of Prof. F. H. Burnette of Baton Rouge, La., on "The Pecan in Louisiana." Although as a rule association with this nutritious nut is wont to develop the better side of human nature, yet we regret to say there are some men in the pecan industry who stoop to evil practices. These sneering villains will be exposed by Prof. H. Harold Hume of Lake City, Fla., who will talk on "Pecan Frauds and How to Detect Them."

The Condition of Trade.

MAYER & Co., the well-known Philadelphia file manufacturers, are persistent students of market conditions. The latter part of last month they asked a number of their customers the following query on the condition of the trade:

"As we are making it a point to obtain the opinion of our most prominent customers on the condition of trade, we take this means of kindly having an expression of such opinion from you. In other words, what do you regard as the condition of trade during the last two months? Also what do you think is the prospect for an improvement in the condition of business within the near future?"

A prominent Boston packing house wrote them in reply on September 24:

"While the past season's business has been very encouraging, it does not seem as though the coming fall would bring us the same results as one year ago. The money market and stock market, as you will know, are both decidedly off color and collections are more than hard. The crop question has looked to be very good, but owing to the frost in certain sections it seems as though it would not give as good results as have been anticipated.

"Taking everything into consideration, and with hopeful eye, the writer would say that he feels that the coming fall will bring what we might call moderate business; it will not

be very alarming and especially in our line it will be somewhat duller than usual owing to the fact of so many of the large machine shops letting so many of their employes go. The Fore River Ship & Engine Co., one of our largest customers, have just reduced their working force by letting 500 of their employes go. The General Electric Co. of Lynn have discharged during the past week over 1,000 men, and with such matters as these staring us in the face it does not look as though we would have the encouraging business that we have had in previous years."

Another Boston house writes, under date of September 19:

"Regarding the condition of trade, would say it has fallen off at least 20 per cent with us during July and August, and while we think there is no doubt it will improve now very soon, it will hardly reach the volume of a year ago. Our customers appear to be fairly busy, but not in such a prosperous condition as they have been in the past; but we do not anticipate the difference will be so great as to cause any alarm."

A Connecticut firm wrote them September 18:

"We would say that so far as our business is concerned there has been marked falling off in volume in the past two months. This we consider due to a weakening of confidence on the part of buyers, due to the unfortunate conditions that exist in the labor ranks at the present time.

"Building has come to an absolute dead stand and is likely to continue so until the element of labor has been brought to its senses. So far as the future is concerned, it is, in our opinion, entirely problematical; but we hope for an improvement this fall. There are certain factors that must be taken into account that are likely to have more or less an injurious effect upon trade conditions. The approaching presidential canvass always brings in its wake more or less uncertainty and a pretty general disposition on the part of buyers to hold up until they can see what the future has in store for them.

"Building contractors will not be likely to take on any new contracts until the atmosphere and the troubles in labor ranks clear up.

"Our policy at the present time will be along conservative lines. We do not look for anything in the nature of a panic, but there is an indication of weakening in prices on many lines, and we do not intend to be caught with too much sail out when the prices break. This course we consider one of ordinary business prudence. We, however, look for a fair volume of business this fall."

A central Massachusetts firm wrote them September 29:

"The very serious decline of stocks in Wall street is certainly affecting the money market to an alarming extent. What the result will be we do not know. We are satisfied the highest point has been reached as regards value of merchandise, and we believe if it were not for the conditions in Wall street that steel of all kinds would be reduced immediately, at least $5.00 per ton; consequently we are looking for this reduction in steel, as we believe steel cannot sell much above the price of bar iron.

"These conditions make it quite clear to us that the future business should be done along conservative lines. We have maintained for some time that we did not believe that the general business could be very much affected by the conditions in Wall street, but we must confess that Wall street conditions influence the commercial and manufacturing business. The securities market is trying to find the bottom, and until this is reached, think we will all be in a waiting condition.

"Miols, the noted financial editor of the New York Tribune, has stated: 'In about twelve months from now we shall be talking about the virtues of economy. Money will be easy in Wall street and that is the only place where it will be.'

"We appreciate, however, on the other hand, there is an under current of good business, which may appear remarkably strong in the next sixty days. The whole situation certainly requires the utmost consideration on the part of the manufacturers and jobbers."

A Pennsylvania firm wrote September 18:

"We found trade, in general, 'looking up' during the past few months. It was flat on its back and could not look otherwise. Various salesmen with whom we spoke report the same conditions throughout the country. We believe it is due to the lack of confidence resulting from the various industrial troubles with which this country is visited. We think by next spring a return of confidence will put business on the same plane as it was during the past few years."

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

THESE are golden days for tinners. A leading Chicago hardware dealer in conversing with me lately said: "Business is very, very good, but we have lots of trouble with our help. Think of paying tinners $20 a week!" I chanced to look over the Philadelphia North American recently, and it would certainly appear that tinners were in excellent demand, as the following advertisements in one issue would seem to show:

SHEET IRON WORKERS and one tin roofer wanted: union men. Address L-63. Inquirer office.

SHEET IRON WORKER for shop work. F. M. Borden & Bro., 118 N. 2d st.

SHEET IRON WORKERS wanted; steady work guaranteed. Charles Callahan, 42 N. 2d st.

SHEET IRON WORKER FOR SHOP WORK. F. M. Borden & Bro., 118 N. 2d st.

TIN ROOFERS wanted, ten, at once. Charles A. Swain, 305-7 Jackson st., Cape May City, N. J.

TIN ROOFER and jobber wanted. Apply to Charles Lovett, Cheltenham. Take Foxchase car on 5th st.

TIN AND SHEET-IRON workers, who can do roofing and jobbing, 8 hours, steady work for one year. 1703 Pine st., from 7 to 9 evening.

TIN AND SHEET IRON WORKERS, two, first class; steady work all year. Haines, 1619 Catharine st.

TIN ROOFER, heater and range jobber, steady work. William Goodwin, 21st and Westmoreland sts.

TIN SMITH—Good solderer on putting tin together; steady work for good man. Apply 144 S. 6th st.

TIN ROOFER, heater and range jobber at once, good position for competent man. Call at 62 E. Main st., Moorestown, N. J.

TIN AND SHEET IRON WORKER who understands roofing, for out of town; steady work all the year for right man. Apply 66 N. 2d st.

TIN ROOFER and sheet iron worker; must be thorough mechanic; best wages and permanent situations to competent men. F. Amberg Company, 805 N. 13th st.

TIN ROOFERS wanted, practical men only. 2943 N. 22d st.

TIN ROOFERS, heater and range men wanted. Albert W. Mills, 1107 S. 47th st.

TIN ROOFERS wanted. 1420 South. Thomas Wood.

TIN ROOFERS, two, first class, at 144 Brown street.

TIN ROOFER and helper. Apply T. F. Hutchinson, 6206 Germantown ave.

TIN ROOFER, heater and range man. F. Patterson, 2903 N. Front.

TIN ROOFER and two helpers. Apply 3733 Market.

TINSMITH, good, wanted on sheet metal work. Apply 518 Vine st.

TIN ROOFERS, heater and range men wanted. 902 N. 28th st.

TIN ROOFERS and heater and range jobbers wanted. 4089 Lancaster ave.

TIN ROOFERS and heater and range jobbers wanted. R. C. Williams, 1907 Columbia ave.

TIN ROOFER wanted; steady job year around. 907 Locust st.

TIN AND SHEET IRON WORKERS, two. John K. Logan, Bethayres, Pa.

TIN ROOFERS, heater and range jobbers. 2224 E. York st.

TIN ROOFERS—3 tin roofers and heater men; also helpers. Wm. C. Raynor, 1815 S. 11th.

TIN ROOFERS wanted. Warren-Ehret Co., 13th and Cumberland sts.

TIN ROOFERS and cornice men wanted. Gara. McGinley & Co., 23 S. 17th st.

TIN AND SHEET-IRON WORKERS wanted. Currie Co., Atlantic City.

TIN ROOFERS, heater and range jobbers; good hands. 1736 South st.

TIN ROOFERS wanted; steady work guaranteed. Charles Callahan, 42 N. 2d st.

TIN ROOFERS, heater and range man. 25th and Parrish.

TIN ROOFERS wanted; good hands. 114 N. 5th st.

TIN ROOFER wanted. 616 S. 21st st.

TIN ROOFERS wanted. Fox, 1416 Federal st.

TIN ROOFER wanted. Apply 1405 Race street.

* * *

SECRETARY JOB of the Chicago Employers' Association has prepared a report showing the increase in wages and in the cost of living in the past five years. The statistics as to the increase in wages—1903 being contrasted with 1898—are as follows:

	Per cent of increase.
Truck teamsters	30 to 40
Grocery wagon drivers	20 to 30
Garment workers, cutters	40 to 50
Sewers	25 to 30
Men in lumber yards	25
Railway street car employes	20
Printers and kindred workers	20
Box makers	22½
Glove makers	20 to 25
Harness makers	30
Laundry workers	25
Supply house clerks	20
Electrical workers	25
Sheet metal workers	17½
Structural iron workers	17½
Building laborers	25
Bricklayers and masons	20
All building trades	20 to 35
Coal miners in Illinois district	35 to 45
Stock yard employes	35
Railway employes	15 to 18
Boiler makers	20

This table shows the cost of living now as compared with the cost in 1898:

	1898.	1903.	Increase, Per ct.
Flour, per bbl	$ 5.20	$ 4.52	*13
Granulated sugar, per lb	.05½	.05	*10
Coffee, retail	18.25	18.25	..
Coffee, wholesale	.08½	.07 5-8	..
Tea, retail	35.45	35.45	..
Tea, wholesale	25.00	21.00	..
Potatoes, per bu	.61½	.57½	*6½
Butter, per lb	.20	.30	50
Eggs, per dozen	.16	.16	..
Average for above commodities	...	...	3
Milk, per quart	.05	.06	20
Round steak, per lb	.10	.12	20
Corned beef, per lb	.08	.08	..
Pork chops, per lb	.10	.14	40
Breakfast bacon, per lb	.12	.18	50
Ham, per lb	.15	.20	33 1-3
Lard, per lb	.10	.14	40
Pickled pork, per lb	.10	.12	20
Average for above meat items	.10	...	29

*Decrease.

* * *

WHILE the bonus system is not as universal as it was some decades ago, it is still quite common for commercial clubs of various minor cities to offer inducements to large concerns to locate in their city. An interesting account of the negotiations between the Galion (O.) Commercial Club and the United States Hardware Manufacturing Co. is given in the Galion (O.) Sun-Review of Oct. 16. The modest offer made by this company in the first place was to the effect that if the city of Galion secured 320 acres of land close to the city, set aside 30 acres for a factory site, sold $100,000 worth of lots and turned this amount and the remainder of the land over to the company, the company would put up factory buildings to cost not less than $160,000, and would give employment to 1,000 to 1,200 people, and deposit $300,000 in the local banks as evidence of good faith. The Commercial Club of Galion made a counter proposition to the effect that they would give the company 330 acres of land and help in every possible way to sell the lots, provided the company would agree to carry out its proposition as above outlined. This would mean that the people of Galion would pay for 330 acres of land and present it as a gift to the company, and would then help to sell lots from this land. This proposition was rejected by the company, who in turn asked that the Commercial Club should secure 340 acres of land, set aside 80 acres for factory site, pledge themselves to sell $100,000 worth of lots from this land and turn the money and the balance of the land over to the company, also agreeing to furnish an adequate outlet for the sewerage—surface and sanitary—of this land. The hardware company on their part agreed to erect a foundry with a capacity of 300 tons a month, to cost $100,000. This proposition was rejected by the Commercial Club, and the negotiations were declared off.

* * *

MRS. JAMES O'BRIEN, 309 West Taylor street, Chicago, has brought a novel suit against a local concern to recover $30 which she spent for a stove, which she claims will not turn out good bread. The story is told as follows in the Chicago American of Oct. 15:

"Please pass the bread," said James O'Brien, 309 West Taylor street.

"Sure," said Mrs. O'Brien, handing her husband the plate.

O'Brien took a piece, buttered it and sank his teeth into it.

"This ain't bread—it's dough," he yelled, "Mrs. O'Brien, you are a bum cook."

"Oh, dear!" said Mrs. O'Brien.

"Absolutely bum," continued Mr. O'Brien. "Why, my mother——"

"It's the stove," exclaimed Mrs. O'Brien. "Until I got this pesky stove you never said a word about your mother and her cooking."

"By Jove, that's right," shouted Mr. O'Brien. "Send it back—it's a bum stove."

So Mrs. O'Brien is suing a furniture and carpet company to recover $30 she spent for the stove that would not turn out the bread she was accustomed to make.

"Why, Judge," said Mrs. O'Brien to Justice Bradwell, "that is the stove limit. You can't boil water on that stove and do it right. Until I got that stove my husband was well satisfied with my cooking, and I never heard him say a word about the biscuits his mother used to make."

"She don't know how to work it," said the man for the company. "We're willing to send a good cook there to prove it will work."

"Do it, and I'll continue the case," said the magistrate.

* * *

EGBERT P. WATSON, writing in the October number of the Engineering Magazine, declares that "It should be possible for every man to work when and where he pleases, and for whom he pleases; it was so once in the United States, and it will be again, so soon as the laws are universally observed."

News Siftings

Herbert Adair, J. C. McComb and R. J. Martin of Bradford, Pa., are looking for a good location for a new stove foundry in the vicinity of Pittsburgh.

The Sun Stove Co., Detroit, Mich., have filed articles of incorporation with the secretary of state increasing their capital stock from $100,000 to $150,000.

S. G. Hoagland, 209 North Main street, Hannibal, Mo., has inaugurated an interesting scheme for increasing his steel range trade, as he presents a silver tea set of four pieces to every purchaser of a steel range.

H. A. Shafer, Palatine Bridge, N. Y.; F. W. Bander, Fort Plain, N. Y., and O. O. Stillman, New Brunswick, N. J., are the incorporators of the Mohawk Stove Co., Palatine Bridge, N. Y., capitalized at $150,000.

The officials and managing directors of the United States Steel Corporation have made their annual trip of inspection of the company's vast system of plants. It is said they will shortly inaugurate a system of economies, including the closing of plants and the establishment of a lower wage scale.

Peter R. Fahey has been elected president, Robert Scannell vice-president and general manager, W. D. McTighe secretary and Peter R. Fahey, Robert Scannell, W. D. McTighe, S. I. Fahey and S. A. Scannell directors of the Eagle Mfg. Co., Cleveland, O., capitalized at $100,000 for the manufacture of Eagle liquid metal polish. This business has heretofore been run as a private concern.

The Sunlight Lava Mfg. Co., Chattanooga, Tenn., send us a circular calling attention to their Sunlight burner No. 24. The pillar of this burner is of rolled brass and the arms are short and straight. They are also reamed to receive tips which are tapered. In addition tips are cemented with a composition which is not affected by heat. Before this cement sets tips are aligned for a perfect flame and the angle of impingement gives the maximum candle power in flame. The tips are machined uniformly and the pillars are heavily nickeled.

The Crucible Steel Co. of Pittsburgh, Pa., are planning a war on the United States Steel Corporation, a powerful factor of which will be the new Clairton Steel Company's plant. W. P. Snyder, who remains at the head of the Clairton company, is considered to be one of the most skillful steel manufacturers in the country. This new plant will turn out sheet and tin plate bars for the independent mills and may possibly enter the rail market. Other lines will be added to the works to form an outlet for the heavy tonnage of billets and blooms that are available for the open market.

The Pennsylvania Railroad Company has adopted a policy of retrenchment involving the abandonment of work on improvements that would have cost $10,000,000. The adoption of this policy is largely due to labor troubles, but also comes partly as the result of a decided decrease in tonnage. Freight traffic has fallen off to such an extent that where last season there were many points along the lines in a state of chronic congestion the way is now readily kept clear. Improvements under way were meant to forestall possibility of congestion this season, but now that business shows the work for the time being is not necessary orders for its abandonment have been issued.

CASH IS KING.

The Faultless Mfg. Co., St. Charles, Ill., manufacturers of malleable steel ranges, are making a rare offer to merchants with money. They assert that the dealer's cash will fetch him prices that will cause him to wink with pleasure at the prospect of getting whatever malleable range trade there is floating around his buckfield. Particulars will be sent the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

MICA IN SPECIAL PACKAGES.

Eugene Munsell & Co., 117 Lake street, Chicago, and 218 Water street, New York, make a special point of preparing mica for the retail trade. Their North Carolina and Wyoming mica is put up in one-pound packages in 4 sizes, ¼-pound each size, as follows: 4½x6, 2½x3, 2¾x3¼, 2x5. Their two-pound packages contain eight sizes, ¼-pound each size, as follows: 2x3, 2¾x3½, 2x4, 2½x3, 3x3, 2½x5, 3x4½, 4½x6½. Their three-pound packages contain twelve sizes, ¼-pound each, as follows: 4½x5, 2¾x4, 2¾x4½, 2x4, 3x3, 2¾x2¾, 2½x3, 5x6½, 2x3, 2½x5, 2x4½, 2¼x3¼.

A NEW WAREHOUSE.

John Kontny, 153-159 South Jefferson St., Chicago, the well-known stove jobber, has been forced by the increase in his business to secure a warehouse, 5 stories and basement, 50x110 feet in dimensions, at 65-67 North Desplaines St., in addition to his present roomy quarters. This important increment in space gives Mr. Kontny magnificent facilities for caring for his trade.

THE ÆOLIPYLE.

The Æolipyle Co., 237 Water St., New York, are makers of the Æolipyle, a device for perfecting combustion. It is durable, simple in construction and easily operated. It is designed for use with furnaces, low pressure boilers, hot water heaters, stoves or ranges.

Through the use of the Æolipyle the coal gas, which ordinarily escapes unconsumed up the chimney from the heater, and which is equal to about 40 per cent of the heat value of the coal, is burned—resulting in an economy of fuel and labor, an increase of heat and comfort and the maintenance of an even temperature.

The gases are held in check by the hollow revolving chamber of the Æolipyle, and the air which is drawn in through the hollow trunnions, attains a high temperature while passing through this chamber, from which it flows out through perforations provided therefor and mingles with the gases and causes their combustion.

The Hardware Record.

American Hdw. Mnfs. Assn.
Pres., F. R. Plumb, Philadelphia.
Vice-Pres.—F. S. Kretsinger, Ft. Madison, Ia.; J. C. Birge, St. Louis; Geo. W. Corbin, New Britain, Conn.
S.-T., F. D. Mitchell, Pittsburg.
Ex. Com., Robert Garland, Pittsburg; Henry B. Lupton, Pittsburg; N. A. Gladding, Indianapolis; W. S. McKinney, Allegheny; F. L. Clark; Birmingham; C. W. Asbury, Philadelphia; G. M. Landers, New Britain; C. H. Holt, Cleveland.

Arkansas Retail Hdw. Dealers' Assn.
Pres., J. F. Maxey, Ozark.
1st V.-P., H. Williams, Hot Springs
2d V.-P., A. L. Skillern, Nashville.
S.-T., C. E. Taylor, Little Rock.
Ex. Com., C. T. Rosenthal, Batesville; T. B. Stewart, Newport; E. E. Mitchell, Morrilton; W. M. Graham, Clarendon; R. F. Roys, Russellville.

Chicago Retail Hdw. Dealers' Assn.
Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Assn. of Philadelphia.
Pres William C. Peters.
V.-P., Thomas Devin.
Sec.-Treas., T. James Fernley.
Directors, W. W. Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

Illinois Retail Hdw. Dealers' Assn.
Pres., Charles H. Williams, Streator.
V.-P., W. T. Gormley, Chicago.
Sec., L. Nish, Elgin.
Treas. Geo. A. Engelhardt, Chicago.
Ex. Com., Charles H. Williams, Streator; W. T. Gormley, Chicago; L. Nish, Elgin; Geo. A. Engelhardt, Chicago; William Bittel, Peoria; F. F. Porter, Chicago; H. G. Cormick, Centralia; H. N. Murphy, Galesburg; R. G. Scheurer, Vandalia.

Indiana Retail Hdw. Dealers' Assn.
Pres., E. M. Bush, Evansville.
1st V.-P., A. N. Shidler, So. Bend.
2d V.-P., W. B. Shipley, LaFayette.
Sec., M. L. Corey, Argos.
Ex. Com., M. L. Lewis, Marion; W. P. Lewis, New Albany; Charles Boonshat Petersburg; E. M. Bush, Evansville; M. L. Corey, Argos.

Indian Territory Retail Hdw. Assn.
Pres., J. G. Smith, Canadian.
1st V.P., Fred Parkinson, Wagoner.
2d V.-P., E. C. Stretch, Vinita.

Iowa Retail Hdw. Dealers' Assn.
Pres. S. R. Miles, Mason City
V.-P., L. Lindenberg, Dubuque.
Sec., H. S. Vincent, Ft. Dodge.
Treas., A. C. Vieth, Oakland.
Members Exec. Com., Jacob Seither, Keokuk; J. F. Doty, West Liberty; L. Lindenberg, Dubuque; S. R. Miles, Mason City; G. C. Paulson, Newhall; Paul DeVol, Council Bluffs; C. S. Barger, Albia; L. H. Kurtz, Des Moines; C. R. Keating, Mt. Ayr; L. A. Gnam, Carroll; C. E. Haas, LeMars.

Kansas Hardware Dealers' Assn.
Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neill, Osage City.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., W. T. Oldham, Mt. Sterling.
1st V.-P., W. S. Shacklett, Fulton.
2d V.-P., Jos. C. Kirchdorfer, Louisville.
Sec., Paul Wagner, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.
Pres., John Popp, Saginaw.
V. Pres., F. M. Brockett, Battle Creek.
Treas., Henry C. Weber, Detroit.
Sec., A. J. Scott, Marine City.
Ex-Com., W. P. Culver, Portland; K. S. Judson, Grand Rapids; J. H. Whitney, Merrill; E. J. Morgan, Cadillac; T. Frank Ireland, Belding; Fred. S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A. J. Scott, Marine City.

Minnesota Retail Hardware Assn.
Pres., W. H. Tomlinson, LeSueur
V.-P., H. S. Cleveland, Minneapolis.
Treas., W. E. Barto, Long Prairie
Sec., M. S. Matthews, Mnpls.
Ex. Com., W. H. Tomlinson, Le Sueur; H. S. Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; C. H. Hornburg, New Ulm; J. Cowing, Alexandria; C. H. Casey, Jordan; C. F. Ladner, St. Cloud, J. Schmidt, Wabasha; A. T. Stebbins, Rochester; J. McGuire, St. Paul.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., Tayler Frier, Louisiana
V.-P., E. L. Wachter, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrollton; F. N. Kannsteiner, St. Louis, W. T. Shoop, Richmond.

National Hardware Association.
Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., John Freeman, Detroit; Samuel B. Bixelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

Nebraska Retail Hdw. Dealers' Asn.
Pres. C. A. Peterson, Oakland.
1st V.-P. Nathan Roberts, Omaha.
2d V.-P. Alex Meyer, Hastings.
3d V.-P. Frank Hacker, Friend.
Sec.-Treas., Harry Hall, Lincoln.

National Retail Hdw. Dealers' Asn.
Pres., W. P. Bogardus, Mt Vernon, O.
V.-P., C. H. Miller, Pennsylvania.
Sec., Treas., M. L. Corey, Argos, Ind.
Ex. Com., H. G. Cormick, Centralia, Ill.; Sharon E. Jones, Richmond, Ind.; T. F Ireland, Belding, Mich.; L. Lindenberg, Dubuque, Iowa; A. T. Stebbins, Rochester, Minn.

N. Dakota Retail Hdw. Dealers' Asn.
Pres., H. N. Joy, Hamilton.
1st V.-P., H. F. Emery, Fargo.
2d V.-P., Frank Lish, Dickinson.
3d V.-P., H B. Allen, Jamestown.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Lakota.
Ex. Com., E. E. Elliott, Sanborn; H. F. Strehlow, Casselton; Hurbert Harrington, Fargo.

Ohio Hardware Association.
Pres., W. P. Bogardus, Mt. Vernon.
V.-P. J. F. Baker, Dayton.
Cor. Sec., D. R. Burr, Piqua.
Fin. Sec., W. C. Jones, Columbus.
Treas., H. A. Waller, Ravena.
Ex. Com. F. A. Powers, Norwalk; Geo. Hartke, Cincinnati; E. Fisher, Wapakoneta; J. C. Snyder, Ironton; E. M. Potter, Cleveland.

Pennsylvania Retail Hdw. Assn.
Pres., Geo. L. Moore, Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKees Rocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

St. Louis Stove Dealers' Assn.
Pres., Wm. H. Hahn.
1st V.-P., G. A. Pauly.
2d V.-P., E. L. Wachter.
Sec., Louis Boehl.
Treas., E. Wertz.

Southern Hardware Jobbers' Assn.
Pres., W. M. Crumley, Atlanta, Ga.
1st V.-P., John Donnan, Richmond, Va.
2d V.-P., E. A. Peden, Houston, Texas.
Ex. Com., Bruce Keener, Knoxville, Tenn.; Chas. Ireland, Greensboro, N. C.; O. B. Barker, Lynchburg, Va.

Texas Hardware Jobbers' Assn.
Pres., J. C. Bering, Houston.
1st V.-P., J. Burnside, Ft. Worth.
2d V.-P., J Taylor, Sherman.
Sec.-Treas., R. Bell, Weatherford.

Wisconsin Hdw. Dealers' Assn.
Pres., L. Findlesen, Green Bay.
V.-P., H. L. McNamara, Janesville.
Sec.-Treas., C. A. Peck, Berlin.
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; H. S. Scofield, Sturgeon Bay; R. Murdoch, Beloit.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 44 inclusive.

Clarence Jessee is a new Tuscola, Ill., hardware dealer.

Henry Katzenmeyer is a new Hillsdale, Mich., hardware dealer.

It is said that a new hardware store will shortly be located at Merrill, Wis.

The Sullivan Hardware Co., Anderson, S. C., were visited by fire on Oct. 12.

Harry & Moreau have purchased the hardware stock of M. C. Cleveland at Marion, Mich.

Wm. Gemmell & Son succeed Wm. Gemmell in the hardware business at Saginaw, Mich.

The Rowley Scale & Supply So. are a new Detroit, Mich., concern capitalized at $10,000.

Thos. Hall, a Middletown, Ill., hardware dealer, is moving into new and larger quarters.

Walter J. Roberts succeeds H. H. Schneider in the hardware business at Marine City, Mich.

Mueller & Senn succeed Mrs. M. R. Sternberg in the hardware business at Louisville, Ky.

It is said that a factory for the manufacture of nail kegs will shortly be located in Manistique, Mich.

The creditors of Hardy & Son, Bloomfield, Ia., have commenced bankruptcy proceedings against them.

On Oct 17 a fire took place in the hardware store of Dunn & McMurdie, 27 East Forty-third street, Chicago.

The present season of the year is said by experts to be one in which there is the best demand for gasolene engines.

John T. Mitchell and Joseph L. Mitchell are the incorporators of the M. Ashley Hardware Co., Columbia, Tenn.

W. J. Hatcher is building a factory at Johnston, S. C., which he will devote to the manufacture of wind mill towers.

The American Steel & Wire Co. have shut down the rod, wire and galvanizing mills at Rankin, Pa., for needed repairs.

Oliver S. Judd of the North & Judd Co., New Britain, Conn., saddlery hardware manufacturers, died recently in his 86th year.

F. E. Smith and J. C. Pritchett are among the incorporators of the Frank Smith Hardware Co., Meriden, Miss., capitalized at $25,000.

H. M. Wilcox is president and A. R. Craig is secretary and treasurer of the Harry Hardware Co., Conway, S. C., capitalized at $8,000.

W. L. Lyons, C. C. Cruze, O. P. Sterling and L. A. Hayes are the incorporators of the Cruze-Sterling Co., a new Knoxville, Tenn., concern.

W. R. Witzer, C. J. Schmidt and H. A. Dadditt are the incorporators of the St. Charles Brass Mfg. Co., St. Charles, Ill., capitalized at $5,000.

Eliphalet G. Hicks, Daniel O. Pease, Frederick B. Pease and George Bierlein are the incorporators of the

E. G. Hicks Gasolene Engine Co., Minneapolis, Minn., capitalized at $10,000.

F. Anklam, John B. Benson and James H. Chase are the incorporators of the Kenosha Brass & Iron Works, Kenosha, Wis., capitalized at $10,000.

Grey J. Huffman, Joseph F. Johnson and C. S. Huffman are the incorporators of the Salva Paint Co., Birmingham, Ala., capitalized at $10,000.

Janney, Semple, Hill & Co., Minneapolis, Minn., hardware jobbers, have contributed $100 for the relief of the St. Charles, Minn., cyclone victims.

Wm. Morgan, a colored employe of the Haskell Hardware Co., Kansas City, Mo., attempted to commit suicide on Oct. 15 by swallowing carbolic acid.

J. W. Thompson, who has been in the hardware business at New Ulm, Minn., for a number of years, will remove to the Pacific coast about Nov. 1.

The nail and paint merchants of Montreal, Canada, held a meeting on Oct. 13 and discussed the advisability of increasing the price of both nails and paint.

Otto Knapp, hardware dealer at 1504 Grand avenue, Kansas City, Mo., was visited by burglars recently, who took nine dozen pocket knives and seven razors.

The factory of the Camillus Cutlery Works, Camillus, N. Y., was visited by burglars on Oct. 12 and was robbed of 130 dozen pocket knives valued at $400.

I. A. Shaw, Hutchinson, Kans., has invented a sash lock which holds the sash tight against the window stop, stops it at any height and locks the sash when lowered.

The Consumers' Cordage Co., Ltd., Montreal, Canada, recently made a coil of rope of the best manila, 12½ inches in circumference, 1,320 feet in length and weighing 6,410 pounds.

P. R. Ensminger, Anaconda, Mont., has invented a new washing machine in which the fabrics are washed by having the water forced through them by both friction and suction.

J. G. Jones and F. E. Kunz, a hardware firm in Almira, Wash., heretofore doing business as Jones & Kunz, have dissolved partnership. They are succeeded by the firm of Hughes & Kunz.

Isaac W. Morton, for a number of years with the Simmons Hardware Co., St. Louis, Mo., committed suicide on Oct. 17 by shooting himself in the rooms of the Quivre Hunting & Fishing Clubhouse.

Mortimer C. Ogden, for twenty-five years president of the Eagle Lock Co. and the Southington Cutlery Co., died at his residence, 38 Monroe place, Brooklyn, N. Y., on Oct. 15. He was in the 71st year of his age.

Nicholas Mainz, who runs a hardware store at 10210 Vincennes avenue, Washington Heights, Ill., has made some improvements in his store the past summer. He has placed the building on a good stone foundation and has made an addition on the front of same and taken out some partitions, giving a floor space of 1,000 square feet.

Frank E. Hunt, the well-known Red Lake Falls, Minn., hardware dealer, has been doing some effective advertising the past week by demonstrating to the people of that vicinity the merits of the malleable steel range made by the Malleable Steel Range Co. of South Bend, Ind. Coffee and biscuits have been served every day and the people have had an opportunity to see this range in operation.

The Norris & Loring Hardware Cedar Rapids, Ia., present the trade with some cogent reasons why and wherefore they should purchase Geneva crucible hoes, forks, rakes and snaths for next spring's business. These goods are made by free American labor, and each fork and hoe is made of crucible steel and has a superior handle. The price has also been established by the makers for next year's business and retailers are fully aware how such a step protects them.

The Hopkins & Allen Arms Co., Norwich, Conn., send us a pictorial circular calling attention to various of their goods, including automatic hammer revolvers, 32 and 38 caliber, nickeled or blued; automatic hammerless revolvers, 32 and 38 caliber, nickeled or blued; their No. 822 rifle, double-barreled hammer gun, Junior target rifle, hammerless double gun, lever action gun, double-barreled gun, nap single-barrel gun, No. 722 rifle, new model 3-piece single-barrel gun and best quality hammerless double gun.

The Grand Rapids Refrigerator Co., 34 Market street, Grand Rapids, Mich., have brought out a new refrigerator as a "side partner" of their well-known "Leonard Cleanable," but at a lower price. This new refrigerator is styled the "Grand Rapids" and is made of ash, golden finish; double box throughout; insulation by charcoal sheathing; zinc or white enamel lining; raised carvings; real bronze trimmings; removable flues; solid iron shelves and air-tight locks. The merits of the Leonard Cleanable refrigerator with its quarter-sawed oak panels, lined with real porcelain on sheet steel, are well known.

The Hill Dryer Company, Worcester, Mass., are manufacturers of Hill's famous dryers for balcony, lawn or roof. The swinging arm of the Style A dryer is substantially made of steel tubing, and if properly put up, will support a ton's weight at the outer end. All the metal work of these dryers is either steel or malleable iron and is heavily galvanized or painted. The dryer top is fastened open, and locked to the post by a patent device, which makes it impossible for it to be blown off. The castings are galvanized and the arms painted a light chrome yellow. The dryer when hung presents a neat and tasty appearance, and is in fact an ornament as well as an indispensable appliance for tenement houses.

The Henry Cheney Hammer Co., Little Falls, N. Y., send us a circular calling attention to their line of crucible cast steel hammers. These include adz-eye hammers, bell-face hammers, plain nail hammers, patent nail holders, adz-eye boxing hammers, blacksmiths' hand hammers, engineers' ball pein hammers, machinists' chipping hammers, tinners' roofing and paneing hammers, tinners' bench and seaming hammers, machinists' cross pein hammers, engineers' double-faced hammers, standard adz-eye claw hammers, "G. D. W." Hammer Co. adz-eye claw hammers, farriers' adz-eye hammers, plain farriers' hammers, plain brad hammers, farriers' adz-eye hammers, riveting hammers and machinists' ball pein hammers.

SECRETARY FERNLEY FELICITOUSLY COMPARES A TERMINAL TO A DELTA.

The Hardware Merchants and Manufacturers' Association of Philadelphia have declared themselves in favor of an entrance to the Wabash railroad of that city, believing the new line could build up a trade without injuring the present roads. In speaking of this proposed departure on the part of the Wabash, Secretary T. James Fernley of this association in a recent interview with the Philadelphia Telegraph said: "The Hardware Merchants and Manufacturers' Association will undoubtedly indorse the action of the Trades League in extending welcome and pledges of support to Mr. Gould in his attempt to obtain a terminal for the Wabash railroad in Philadelphia. In the matter of rates we receive the same advantages of other cities, for we are protected in this matter by the Inter State Commerce laws. Yet I believe it is highly desirable that another road should enter Philadelphia. It is just like the delta formed by the junction of the mouths of several large rivers. At that point there flows a great quantity and variety of water. So it is with the city which has in it the terminals of many large railroad lines. Trade of every kind and from every section naturally comes there, and the consequence is the merchants prosper."

ANTI PARCELS-POST AGITATION.

M. S. Mathews, secretary of the Minnesota Retail Hardware Association, with headquarters in the Boston Block, that city, is sending out a blank petition to the membership, a reduced *fac-simile* of which is shown herewith.

To the Hon. ..... *Congressman from Minnesota.*

We the undersigned business men and citizens of Minnesota, have learned that a Bill is now pending before Congress, which provides that large parcels of merchandise may be sent through the mails at a cost of five cents a pound and two cents for each additional pound or fraction thereof, which may be considered little more than a nominal rate.

We are thoroughly convinced that this kind of legislation is being urged by the mail order and catalogue houses and, if allowed to become a law, will have the effect of ruining the business interests of the retail merchants throughout the country and would also have the effect of increasing the large deficit of several millions of dollars, that now occurs annually in the post office department.

We therefore earnestly and firmly protest against the passage of said bill.

SIGNATURE	BUSINESS	RESIDENCE

With this petition is the following strong letter antagonistic to the proposed parcels post bill:

"Language cannot be made too strong in calling your attention to this movement and what it means to the retail dealer. As the other side is possessed of ample funds to push this measure, it can only be defeated by united and persistent effort. We urge you to get a start with this petition, interest your fellow-tradesmen and circulate it yourself, pasting on the needed additions. It has been suggested that the traveling men might be enlisted and render material assistance.

"When you have secured all the available names fill in the name of your congressman and mail it with a personal letter if possible.

"If you are not an association member this is a most fit and appropriate time to take hold with us. Important questions, vitally affecting your commercial salvation, are continually arising and all strength lies in organization."

We have reproduced Mr. Mathews' circular because we believe hardware men in every community should typewrite the matter shown, fill in the name of their particular congressman, change the "Minnesota" and circulate this timely expression of popular will.

That is, of course, if they are opposed to a parcels post. If they believe catalogue house competition can become about ten times as hot as it is now and will not hurt them, there is no reason we can see why they should bother their heads about the matter.

THE MACK WASHER.

S. McGranahan, Davenport, Ia., is manufacturer of the Mack washer shown in the accompanying illustration. This washer, which has high speed, is light running and durable, is made on the rotary plan, having both a balance wheel and a crank. The dasher is operated by a rack movement. When the rack is moved four inches a two-thirds revolution is given to the dasher. The speed of this washer is one turn of the crank to one turn and return of the dasher. To each revolution of the crank the balance wheel revolves six times, thus giving such a momentum to the wheel that when the rack reverses the dasher there is no jerk or unsteadiness to the running.

The Mack Washer.

The tub is made of Virginian cedar, and has corrugated sides and bottom. The legs are bolted on solid with four galvanized bolts. The castings are aluminum bronze, and all are fastened on with bolts.

The wringer attachment is put on with brackets, which are bolted, and does not project over the side of the tub, making it neat and convenient to handle.

The balance wheel can easily be removed. This

machine has the improved dasher. The dasher post does not project through the bottom of the block.

HARDWARE DEALERS REPEL COERCION.

The hardware trade should be proud of the position taken by a couple of Western hardware dealers in the matter of coercion by union labor leaders. Leaders of a strike at Lewiston, Mont., recently printed a list of business houses in that city called "the fair list." This list was headed "Friends of Organized Labor," and consisted of the names of business houses to whom strikers were asked by their leaders to give their exclusive patronage. According to the Lewiston (Mont.) Argus of Oct. 14, the fight in that city has not been the question of who or who are not friends of organized labor, but what individuals or firms could be coerced to support the program of coercion, intimidation, threats, strikes and boycotts inaugurated by the agitators. The Judith Hardware Co. of that city was included in this "fair list," but Manager I. M. Hobensack of this hardware concern authorized the local paper to state that "including of the name of this company in the so-called 'fair list' was unauthorized by him or by any member of that firm." Further he said that while the company had no wish to participate in the labor difficulties in Lewiston, that they were not at all in sympathy with the strikers on the buildings then under construction. Mr. Hobensack added that he wished this statement made so that no misapprehension should be had regarding their position. The list in question contains but a single grocery house, whose manager joins with Mr. Hobensack, in repudiation, but is rich in names of liquor dealers.

Another western hardware firm who deserve credit for their conscientious stand in this matter are the Tompkins-Hunt Hardware Co. of Telluride, Colo. In that city a number of murders, including that of Arthur L. Collins, manager of the Smuggler-Union mine, have been committed by the miners' union of Telluride, and when the president of this union, after directly inciting so many cases of violence, had the audacity to run for sheriff, he was vigorously opposed by the Telluride Daily and Weekly Journal, and was defeated for office by 35 votes. This disgruntled leader of the lawless element, backed up by energetic work on the part of his following, insisted that every advertiser be coerced to drop his announcement from the columns of this courageous daily. This is the way this hardware dealer replied, according to a western paper:

"No, sir!" said Henry Tompkins of Telluride, whose hardware firm is threatened with boycott because it advertises in the Telluride Journal, "I do not think that any such attempt to throttle a free press will succeed in Colorado. The whole size of the matter is that at the last election the president of the Telluride Miners' Union ran for sheriff on the Democratic-Fusion ticket. The Telluride Journal, which is a Republican daily, of course opposed him, and the Republican candidate was elected. The union waited until the last of December and then it declared a boycott upon the paper because it had not supported St. John. The miners ordered that every advertiser in the city take his advertisement out of the paper, and all of them but four did so. The Tompkins-Hunt Hardware Co., of which I am president, did not take out its advertising. Now the union has declared a boycott against us, as well as against the other firms which refused to obey the order. The union leaders say that the men will not work with material bought of us, although we supply most of the mines in the vicinity of Telluride. I do not think that the mine owners will submit to this sort of thing. We have not felt any effect from the boycott and I hardly expect to. They threaten now to attack us in the other camps where we have stores—Leadville, Aspen, Creede and Victor. In Victor all our employes are union men, so that if the Western Federation of Miners persists it will be trying to drive union men out of employment. But consistency does not worry them, anyhow, for the Telluride Journal employs only union printers. The Carpenters' Union of Telluride has refused to take part in the boycott and there is no question that most of the people of the city sympathize with the paper, but are afraid of the union."

All honor to the Tompkins-Hunt Hardware Co. They were one of the firms who refused to countenance the attempted stifling of a free press by outrageous intimidation.

All honor to the Judith Hardware Co. They were unwilling to secure the trade of striking housesmiths by allowing their name to stand as a sponsor for tactics that incurred their disapprobation. The hardware trade of the country is honored by the stand taken by I. M. Hobensack and Henry Tompkins.

THE SIPHON MILL OILER.

The accompanying cut shows the tin siphon mill oiler manufactured by the Evans Stamping & Plating Co., Taunton, Mass. This oiler is made of the best XX tin plate and gives a ready flow of oil. Its vent tube, as seen by the illustration, is made in a coil securely fastened to the walls of the can. This vent does away with air chambers and with complicated devices, which become filled with dirt and oil and cannot be cleaned out without taking the can apart, by running a small piece of brass wire in on the outside. Every can is guaranteed not to leak. On their tubes this firm make a specialty of extra lengths. In fact they make any length tube people may require from 3½" which is the regular, up to 20" or more. These tubes are dulled on the end to different sizes according to the grade of oil which is used. They carry in stock at all times Nos. 16, 18 and 19 cans, No. 16 having

The Siphon Mill Oiler.

the largest hole of the three. This can has a wide vogue throughout the East and some sections of the

Tube.

South. This firm are also manufacturers of nickel plated steel stove trimmings and the well-known Acme oven thermometers. They do an extensive business in nickel, brass and copper plating.

A SEASONABLE SPECIALITY.

R. F. Clark, 185 Jackson boulevard, Chicago, manufacturer of Clark's husker hooks, is actively pushing this popular specialty. He offers to send to any dealer ordering a dozen of Clark's husker hooks one-twelfth dozen free, provided said order is accompanied by clipping of one of his advertisements.

BUSINESS CHANGES.

NEW FIRMS.

Tuscola, Ill.—Clarence Jesser.
Glenville, Ohio.—Bliss & Geddes.
Dallas City, Ill.—Henry C. Boyle.
Haywood, Wis.—C. D. Benack.
Brewer, Me.—George E. Homestead.
Haverhill, Mass.—Hanscom & Potter.
Lansdowne, Pa.—Wm. L. Rementer.
Morganfield, Ky.—Whitsell & Northern.
Nicholville, N. Y.—Henry Blanchard.
Riverside, Cal.—George F. Mott.
Rockdale, Tex.—The Coffield Hardware Co.
Social Circle, Ga.—The Almand Hardware Co.
St. Johnsville, N. Y.—Earl Morford.
Barberton, O.—Wm. Cardan & Sons.
Belleplaine, Kans.—Harold Watson.
Bryan, O.—The Columbia Hardware Co.

CHANGES.

Hillsdale, Wis.—Mr. Carr succeeds Erwin Richards.

Anita, Ia.—I. Houck is succeeded by J. E. Brouce.

Diagonal, Ia.—A. N. Bailey succeeds Bailey & Barker.

Algona, Ia.—King Bros. are succeeded by W. W. Jones.

Elkton, Minn.—D. Swenson succeeds D. M. Bostwock.

Peebler, S. D.—Anderson & Swanson succeed Anderson & Sylvertson.

Sturgis, Mich.—Favorite & Schermerhorn are succeeded by E. C. Wright.

Hendricks, Minn.—W. R. Danielson succeeds J. P. Johnson & Son.

Merrill, Wis.—The Weiss Hardware Co. are succeeded by Norland & Howland.

Newberry, Mich.—The M. R. Manard Co., Ltd., are succeeded by James C. Foster.

Algona, Ia.—C. B. Bogge succeeds Otto Falkenheimer.

Christine, N. D.—Gilbert Johnson succeeds H. O. Rund.

Tyndall, S. D.—Thompson & Koehn are succeeded by Bromwell & Jackson.

Portland, Ore.—The Muck-Dunning Hardware Co. succeed the Pier Hardware Co.

Blue River, Wis.—John Gasser is succeeded by Van Fleet & Garman.

Worthington, Ia.—Wolfe & Jager are succeeded by S. J. Jager.

Rawlins, Wyo.—Geo. M. Scott succeeds the Ferris Hardware Co.

Lone Tree, Ia.—John Lingo is succeeded by Chris. Rayner.

Wymore, Neb.—Stephenson & Lasher have dissolved partnership.

Oldham, S. D.—A. Simonson & Bro. are succeeded by Hanson Bros.

Monticello, Ill.—Coe & McMillen are succeeded by Lemon & Skelton.

Mt. Auburn, Ill.—D. W. Houseley succeeds Rohen & Phillips.

Wall Lake, Ia.—T. G. Arfmann succeeds the Sampson Land Co.

Bern, Kans.—The Irvin-Jordan Hardware Co. succeed Joseph J. Koehler.

Bethany, Mo.—Mr. Estep succeeds Mr. Ross.

Huntsville, Ky.—Smith Yowell has purchased the stock of hardware from the Evans assignee.

Willmar, Minn.—The Lewis Hardware Co. succeed A. N. Lewis.

Sacred Heart, Minn.—Osmundson & Skalbeck succeed John J. Telska.

Revillo, So. Dak.—L. Halverson is succeeded by Merrick Bros.

Prairie du Chien, Wis.—E. Proudfit succeeds E. Morrison.

Rockton, Wis.—Wm. Selbach is succeeded by Marshall Bros.

Havelock, Wis.—H. L. Bruett is succeeded by W. H. Pool.

Petrolia, Pa.—Jacob Bros. are succeeded by Jacobs & Guthrie.

Mt. Pleasant, Pa.—M. W. Patterson & Co. are succeeded by Geo. W. Patterson.

McClellandtown, Pa.—A. E. Moser is succeeded by W. S. Moser.

Fulton, Mo.—Homer Rood and J. W. Cook succeed C. L. Fisher.

Woodburn, Ore.—John Naze & Co. are succeeded by John Naze.

Columbia, Tenn.—W. A. McGregor succeeds James Andrews & Co.

Garrison, Ia.—James Hart succeeds Voris & Donald.

Douglas, Neb.—Cowles & Son are succeeded by W. W. Finley.

Algona, Ia.—O. B. Baggs has purchased a half interest in the Falkheimer hardware store.

Jonesboro, Tenn.—W. R. Lowry is succeeded in the Byrd-Lowry Hardware Co. by Byrd Bros.

De Land, Ill.—W. T. Higgard is succeeded by Frank Watson.

Falls City, Neb.—Ernest Werner and John Mosiman succeed Loucks & Jones.

Orrick, Mo.—Charles Brown and I. C. Brown succeed Ed. L. Hunt.

Pittsfield, Mass.—James Kittle is succeeded in the Berkshire Hardware Mill Supply Co. by W. S. Smith and A. J. De Camp.

Oelwein, Ia.—Fred Field succeeds the Howard Hardware Co.

Princeton, Ill.—Harris & Stickel are succeeded by J. B. Morton.

Tuscola, Ill.—Mr. Coddington of Coddington & Bauman succeeds Martin Bros.

Waynesboro, Pa.—Frank L. Gilbert and H. Clarence Gordon succeed Demuth & Englar.

MISCELLANEOUS.

Girard, Ill.—Schen's hardware store; fire loss.
Authen, S. D.—C. W. Janett; fire loss.
Quincy, Mich.—A. L. Lytle; fire loss $1,000.
McCook, Neb.—W. T. Coleman; fire loss.

STOPPAGES.

Waupaca, Wis.—Thomas Pipe has assigned.
Akron, O.—John Gow & Co. have assigned.
Wortham, Tex.—L. N. Barber has assigned.
Norfolk, Va.—J. B. Armstrong & Co. have filed a petition in bankruptcy.
Houston, Tex.—L. N. Barbe has assigned.

Heating and Ventilating

The death is announced of C. H. Griffing, assistant purchasing agent of the National Tube Co. of Pittsburgh.

John G. Schurtz is interested in the National Valve Co., recently incorporated at Sandusky, O., with a capital stock of $100,000.

The Holyoke Valve & Hydrant Co. are a new Holyoke, Mass., concern capitalized at $100,000 for the manufacture of valves, brass fittings, etc.

Frederick P. Hitchcock, James L. Doughty and A. H. Day are the incorporators of the Central Construction Co., Springfield, Mass., capitalized at $20,000 for dealing in steam fitters' supplies.

The Eastern Trade Golf Association held their fall tournament at White Plains, N. Y., Oct. 15. After the qualifying round the contestants played for 18 holes medal play. Frank H. Simmons won the championship cup by a score of 83, with F. C. Jennings runner up on a count of 84.

The business formerly conducted by Thomas Gaffney & Co., 107-109 Blackstone street, Boston, Mass., has been recently reorganized and incorporated as the Waverly Heating & Supply Co., with Thomas Gaffney as president, E. P. Crawe as treasurer and W. L. Healey as secretary. They also do a wholesale business in steam and hot water heaters, furnaces, stoves, ranges and repairs.

A FEW KELSEY GENERATOR FACTS.

The Kelsey Heating Co., Syracuse, N. Y., can be justly proud of the record of the Kelsey warm air generator, which they claim to be the standard high-grade heater of the world and to have greater heating surface than any other heater with the same size grate. These generators are sold by 600 dealers, quite an audience if they were all gathered in one hall. It will be remembered that this precise number of men under the leadership of the gallant Nolan were all that were required to execute the most gallant military maneuver in all history at the battle of Balaklava, when "with cannon to the right of them, cannon to the left of them," they rode down that lane of death and captured the Russian guns.

Twenty-three thousand of these furnaces are in use. Taking the No. 30 generator as a type of this line, we find it to be 60 inches in diameter and 76 inches in height. Pack these generators as closely together as possible and they would occupy a space of 575,000 square feet. Place them side by side in a straight line and they would reach 21.78 miles. Pile one on top of another and they would rise 27.57 miles in the air, or about five times the height of the loftiest peaks of the Himalayas or the Andes, and equaling the height of 479 of Chicago's Masonic Temples balanced one on top of another.

Used as fencing, the Kelsey generators now in use would inclose 29.27 square miles.

Considering the efficiency of this generator and the further fact that quite a percentage of these heaters have been in use year after year, we confess our inability to tackle the task of computing the vigintillions of thermal units they have contributed to make the zone in which we live habitable when Sol, the old rascal, has been conducting his annual flirting with Miss Capricorn.

REGISTERS, VENTILATORS AND FURNACE SPECIALTIES.

The Henry & Scheible Co., Cleveland, O., send us one of their latest catalogues of registers, ventilators and furnace specialties. The registers shown include a variety of designs, including Moorish convex, round, etc., in japanned black or japanned white, electro-plated nickel or bronzed in gold, silver or copper. Their Perfect side wall register is finished in black enamel, is electro-plated or finished in brass, nickel or copper.

The Moncrief furnace is simple, durable and economical.

The fire pot is of heavy weight and nearly straight, making it impossible for ashes or coal to lodge on the sides. It is made in two equal sections. As the lower part of the pot is more or less filled with ashes and the upper part with live fuel, the upper part expands to a greater extent than the lower one, and by making the pot in two sections, with the cup joint in the center, the effect of the unequal contraction and expansion on a solid pot, which is to crack it, is overcome. The Moncrief fire pot will not crack.

The feed section or lower radiator, rests upon the upper section of the fire pot in a deep cup joint. The feed door opening is larger, sufficiently so for the free admission of a large scoop shovel. The feed section and top radiator are so carefully modeled that the air to be warmed circulates easily and naturally over every part—a large part of the air passing almost directly over the center of the fire pot, the hottest portion of the furnace—where it is surrounded by heated surfaces, the remainder passing between the casing and the outer surface of the return flue. The form of the castings is such that the air while becoming warmed is given such an impetus that it is forced through the conductor pipes to the rooms to be warmed, even under adverse circumstances.

The radiator consists of a large combustion chamber resting on the lower radiator (or feed section), and is crowned with an all-cast top return flue which compels the products of combustion to travel around both sides of the top before entering the smoke exit—retaining the products of combustion within the casting walls for a sufficient length of time to extract the available heat from them.

The surfaces are nearly all self-cleaning. Such cleaning as may be necessary can be attended to readily through the smoke flue and feed door openings and clean-out.

The casings are double, with three-fourths-inch space between the two, allowing for a circulation of air between the inner and outer sections and reducing the radiation of heat into the basement to the minimum.

The casing rings are made of heavy wrought iron, with lugs for double casings, and do not vary in size.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

MONARCH AIR BLAST FURNACES.

The Forest City Foundry & Mfg. Co., Cleveland, O., send us one of their latest catalogues devoted to their line of Monarch, Monarch Air Blast, Imperial and Imperial Air Blast furnaces.

The Monarch furnaces are made entirely of cast iron.

The ash pit is deep and roomy, allowing for a large accumulation of ashes, and is so shaped that they are readily removed.

The grate is of the triangular form and very heavy. The advantage of this form of grate is the ease with which it removes the ashes and other refuse from the fire chamber. Should occasion require, any one of the bars can be removed without disturbing the others, and without removing a bolt.

The dust flue forms a connection between the ash pit and combustion chamber, and allows the light dust and ashes which are freed by the movement of the grate to rise into the furnace above the fire pot.

The fire pot in a furnace of proper construction is the first part to require renewing. Such being the case, every precaution should be used to prolong its life. The Monarch fire pot is of heavy weight and nearly straight, making it impossible for ashes or coal to lodge on the sides. It is made in two equal sections. As the lower part of the pot is more or less filled with ashes and the upper part with live fuel, the upper part expands to a greater extent than the lower one, and by making the pot in two sections, with the joint in the center, the effect of the unequal expansion and contraction on a solid pot, which is to crack it, is overcome.

Feed section. Upon the upper section of the fire pot rests the lower part of the feed section. The feed door opening is large, sufficiently so for the admission of a large scoop shovel or chunk of wood if desired. The feed section and top radiator are so carefully modeled that the air to be warmed circulates easily and naturally over every part—a large part of the air passing almost directly over the center of the fire pot—the hottest portion of the furnace—where it is surrounded by heated surfaces—the remainder passing between the casing and outer surfaces of the return flue.

The form of castings is such that the air while becoming warmed is given such an impetus that it is forced through the conductor pipes to the rooms to be warmed—even under adverse circumstances.

The radiator is so made as to compel the products of combustion to travel around both sides of the top before entering the smoke exit—retaining the products of combustion within the casing walls for a sufficient length of time to extract the available heat from them. The principle of the construction is such that it can be none other than an economical furnace.

The surfaces are all nearly self-cleaning. Such cleaning as may be necessary can be attended to readily through the smoke and clean-out collars and feed door opening.

The casings are double, with one-inch space between the two, allowing for a circulation of air between the inner and outer sections and reducing the radiation of heat into the basement to the minimum.

A nickel plated regulator is furnished by means of which the dampers of the furnace can be regulated from one of the living rooms.

The height is such that the furnace can be placed to great advantage in low basements—still leaving ample room for proper elevation of the warm air pipes.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add, "Saw it in THE AMERICAN ARTISAN."

THE PAN-COAST VENTILATOR.

The Pan-Coast Ventilator and Mfg. Co., Inc., 233 Fifth St., Philadelphia, Pa., have a number of attractive orders on hand, including fifty 42-inch ventilators for leading Quaker City public schools. The Board of Education of Harrisburg, Pa., East Hampton, N. Y., and Louisville, Ky., are also purchasers of Pan-Coast ventilators. The Southern Cotton Oil Co., Savannah, Ga., recently ordered five 48-inch ventilators. The American Car & Foundry Co., Bernick, Pa., placed twenty 36-inch ventilators. Other shipments of late date have been eighty-six 12-inch for the Medical Laboratory for the University of Pennsylvania, Philadelphia; one 54-inch and five 48-inch ventilators for the Medico-Chi Hospital of Philadelphia; twelve 24-inch for the stables of W. B. Belknap, Louisville, Ky., the well-known hardware jobber; twenty-five 24-inch for the Century Leather & Enameling Company, Yardley, Pa.; one 60-inch for the public school of Richland Center, Wis.; thirty 24-inch for the Maple & Hamer cotton mills in South Carolina; twenty 48-inch for the Toledo Railroad & Terminal Company's new buildings at Toledo, Ohio; sixty-six 24-inch for the piers of the Pennsylvania Railroad; two 72-inch for the Federal Building at Baltimore, Md., and twelve 42-inch and twenty 30-inch ventilators for the United States Coke Company.

It must not be inferred from this that this company's trade is all confined to this country. On the contrary they have an export trade of large dimensions. The House of Parliament and the Royal Theater in Perth, West Australia, and also several Japanese buildings, have been recently equipped with these ventilators.

A TRIP TO MEXICO.

Cortez and his cavaliers who so valiantly conquered Mexico in 1522 or thereabouts will be emulated by three northwestern associations of business men, as a delegation composed of the membership of the North Dakota and Northwestern Minnesota Implement Dealers' Association, North Dakota Hardware Dealers' Association and Minnesota Hardware Dealers' Association will leave Minneapolis about Jan. 20-25, 1904. Their trip will take them through the southwest, touching Omaha, Kansas City, Indian Territory, St. Louis and Chicago. Special Pullman sleepers will be furnished, which will be occupied during the entire trip, from the time Minneapolis is left until they return, and everything will be first class.

Those desiring further particulars can obtain same from George F. Carpenter, Crookston, Minn.

F. N. Barnes, formerly with the Auburn (N. Y.) Roofing Co., has sold out his interest.

Tinshop

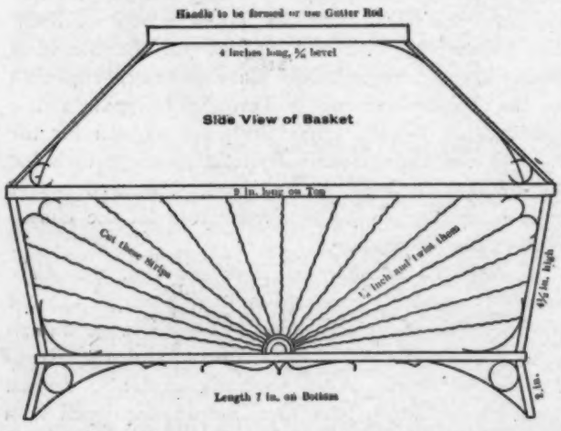
ORNAMENTAL BASKET.

TO THE AMERICAN ARTISAN.

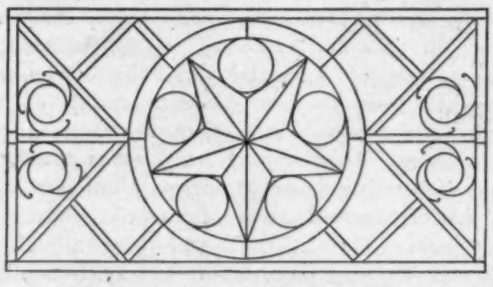
In response to the call for fancy articles for the household I inclose diagrams of a pretty basket to hold

stereoscopic views. It is made of tin and painted or not, as may be desired. The frame is cut three-fourths inch wide and folded one-fourth square.

It is nine inches long on top, seven inches on bottom,



five inches wide on top and four inches on bottom, with legs about two inches long. A partition should run through the middle. All the curved pieces are



cut three-eighths inch and folded twice to one-eighth inch and formed to shape. "J. T. D."

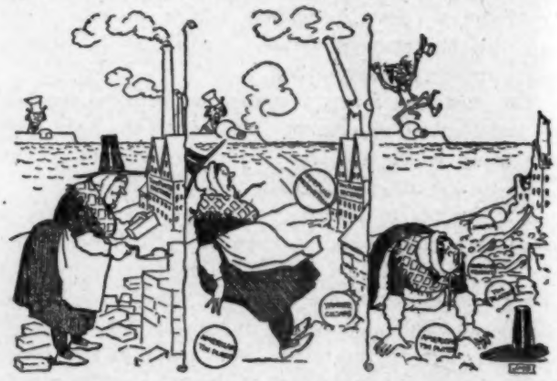
Chicago, Ovt. 20, 1903.

TIN FROM TEXAS.

Dr. Wm. B. Phillips, who has charge of the preparation of the mineral exhibit of Texas for the St. Louis Exposition, says that the tin ores of the state will excite a great deal of interest. The ores are taken from the east slope of the Franklin mountain, about twelve miles north of El Paso, and occur in well-defined fissure veins, the largest of which has a width of from two to five feet and can be traced on the surface for a distance of 1,200 feet.

AN INTERESTING CARTOON.

The following cartoon is taken from the Cardiff (Wales) Western Mail of Oct. 10. It is typical of that unflinching candor which is characteristic of the British, who never try to gloss over national dangers, but depict them frankly and then try to meet them. In the



first picture Dame Wales is shown laboriously building up a tin plate industry. The second picture shows her tin plate factories bombarded by Uncle Sam with his "Surplus Production," and in the third picture we see Uncle Sam exulting over the demolition of the British tin plate trade.

CONCERNING THAT ROOF.

The Cortright Metal Roofing Co., 50 North Twenty-third street, Philadelphia, and 134 Van Buren street, Chicago, send us a very attractive booklet showing pretty half-tones of buildings covered with their Cortright roofing.

This roofing is made of separate pieces, cut from heavy sheets of tin and stamped into shapes and patterns that have become standard. Each of the pieces is called a shingle or a slate, and the patented feature of this roofing is the device by which they are locked together.

This roofing, by special patented features, automatically expands or contracts without the slightest injury to the material or to its absolute storm-proof tightness. The secret of this lies in the patent side lock. This roofing is made from I. C. prime charcoal roofing tin. This tin consists of selected thin sheets of steel, heavily and evenly coated. These sheets weigh 216 pounds to every box of 112 sheets, 20x28 inches. This firm can make their metal slates or Victoria shingles from copper, using any weight of material desired. They can also furnish galvanized shingles. In furnishing these latter their method is to take the sheets, which are first coated with tin, and after the slates or shingles are stamped, they are galvanized, thus securing practically a double coating. The paint used for their metal shingles is made under their own formula from oxide of iron, pure linseed oil and other

special ingredients. Every part of a Cortright metal roof, including metal slates or Victoria shingles, ridge coping, hip covering and valley, is painted with Cortright metal roofing paint before it leaves the factory of this firm, and the painting is done by dipping each piece in a vat full of the paint. Thus each piece is coated thoroughly on the under side and in all the folds, as well as on the upper side. The goods are allowed to stand several days for the purpose of drying slowly and thoroughly before they are shipped. The trade will find this booklet one of deep interest. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

NOTES AND QUERIES.

GEARS.

From O. G. Thompson, Lyle, Minn.

Where can I buy small cut gears for use on small machinery?

Ans.—Case Mfg. Co., Columbus, O.; Filer & Stowell Co., Milwaukee, Wis.; Geo. J. Fritz, St. Louis, Mo.; Nordyke & Marmon Co., Indianapolis. Ind.; Straub Machinery Co., Cincinnati, O.

HOT WATER HEATERS.

From J. S. Dewey, Oakdale, Neb.

Who are some leading manufacturers of hot water heaters?

Ans.—American Radiator Co., Lake and Dearborn streets, Chicago; Brand Stove Co., Milwaukee, Wis.; Boynton Furnace Co., 147 Lake street, Chicago; Craig-Reynolds Foundry Co., Dayton, O.; Fuller-Warren Co., Milwaukee, Wis.; Hart & Crouse Co., Utica, N. Y.; Kewanee Boiler Co., Kewanee, Ill.; March Brownback Stove Co., Pottstown, Pa.; Richardson & Boynton Co., Chicago.

AXLE GREASE.

From "Reader," Grays Lake, Ill.

Would like addresses of manufacturers of axle grease?

Ans.—Brooks Oil Co., Cleveland, O.; Delaney Oil & Lubricant Co., Milwaukee, Wis.; J. Dixon Crucible Co., Jersey City, N. J.; Drehler Grease & Oil Co., 80 Cortlandt St., New York; Fiske Bros., Refining Co., 59 Water St., Boston, Mass.; Frazer Lubricator Co., 31 Superior St., Chicago, Ill.; Freedom Oil Wks., Freedom, Pa.; Galena Axle Grease Co., Galena, Ill.; Globe Oil Co., Cleveland, Ohio; F. C. Johnson, Kishwaukee, Ill.; Illsley, Doubleday & Co., 229 Front St., New York; Longman & Martinez, 207 Pearl St., New York; Lovell & Tracy Oil Co., Hartford, Conn.; R. McWilliams, Ltd., New Orleans, La.; Monitor Oil Co., Cleveland, O.; Wm. F. Nye, New Bedford, Mass.; D. J. Ogilvy, Cincinnati, O.; Smith & Nichols, 143 Front St., New York; Smith Railroad Lubricating Co., Elizabethport, N. J.; Star Mfg. Co., Easton, Pa.; D. A. Stuart & Co., Inc., 447 Illinois St., Chicago, Ill.; Swan & Finch Co., 157 Maiden Lane, New York; Union Grease Co., Boston, Mass.; Waters-Pierce Oil Co., St. Louis, Mo.; World Refining Co., Easton, Pa.

YACHT BOATS.

From J. L. Johnson, Chicago.

Would like addresses of manufacturers of yacht boats?

Ans.—Henry A. Davison, Calais, Me.; Detroit Boat Works, Detroit, Mich.; Thos. Drein & Son, Wilmington, Del.; Manhattan Machinery Co., 95 Liberty St., New York; N. Y. Yacht, Launch & Engine Co., Morris Heights, N. Y.; Nilson Yacht Building Co., Baltimore, Md.; Racine Boat Mfg. Co., Racine, Wis.; Orin Sheldon Co., 394 Atlantic Ave., Boston, Mass.; Read Bros., Fall River, Mass.; Homer & Shaver, Buffalo, N. Y.

SWINGING CHECK DRAFT FOR TEN-INCH SMOKE PIPE.

From J. G. Young, Bellevue, Ia.

Where can I buy a swinging check draft for 10-inch smoke pipe?

Ans.—Chas. Smith Co., Chicago.

ITEMS.

The Wellsville, O., plant of the American Sheet Steel Co. has resumed work.

It is said that the necessary capital has been secured for finishing the new tin plate mill at Atlanta, Ind.

The American Tin Plate Co. have shut down the hot mills of their South Connellsville, Pa., plant for an indefinite period.

W. B. Berteis & Son, Wilkesbarre, Pa., tinware manufacturers, were victims of fire, Oct. 16. Their loss is $100,000.

The American Steel Co., Pittsburgh, Pa., brought an attachment suit against the United Sheet & Tin Plate Co., Pittsburgh, Pa., for $12,000 on Oct. 15.

It is said that Joseph H. Hutchinson, ex-lieutenant-governor of Idaho, is now prospecting near Cape Nome, Alaska, for stanniferous deposits.

The Holland Stamping works, Holland, Mich., are, it is said, receiving orders for stove boards and steel ceilings at a faster rate than they can fill them.

Alfred Nelson, Allan A. Nelson and John B. Smith are the incorporators of the New York Standard Slate Works, Jersey City, N. J., capitalized at $300,000.

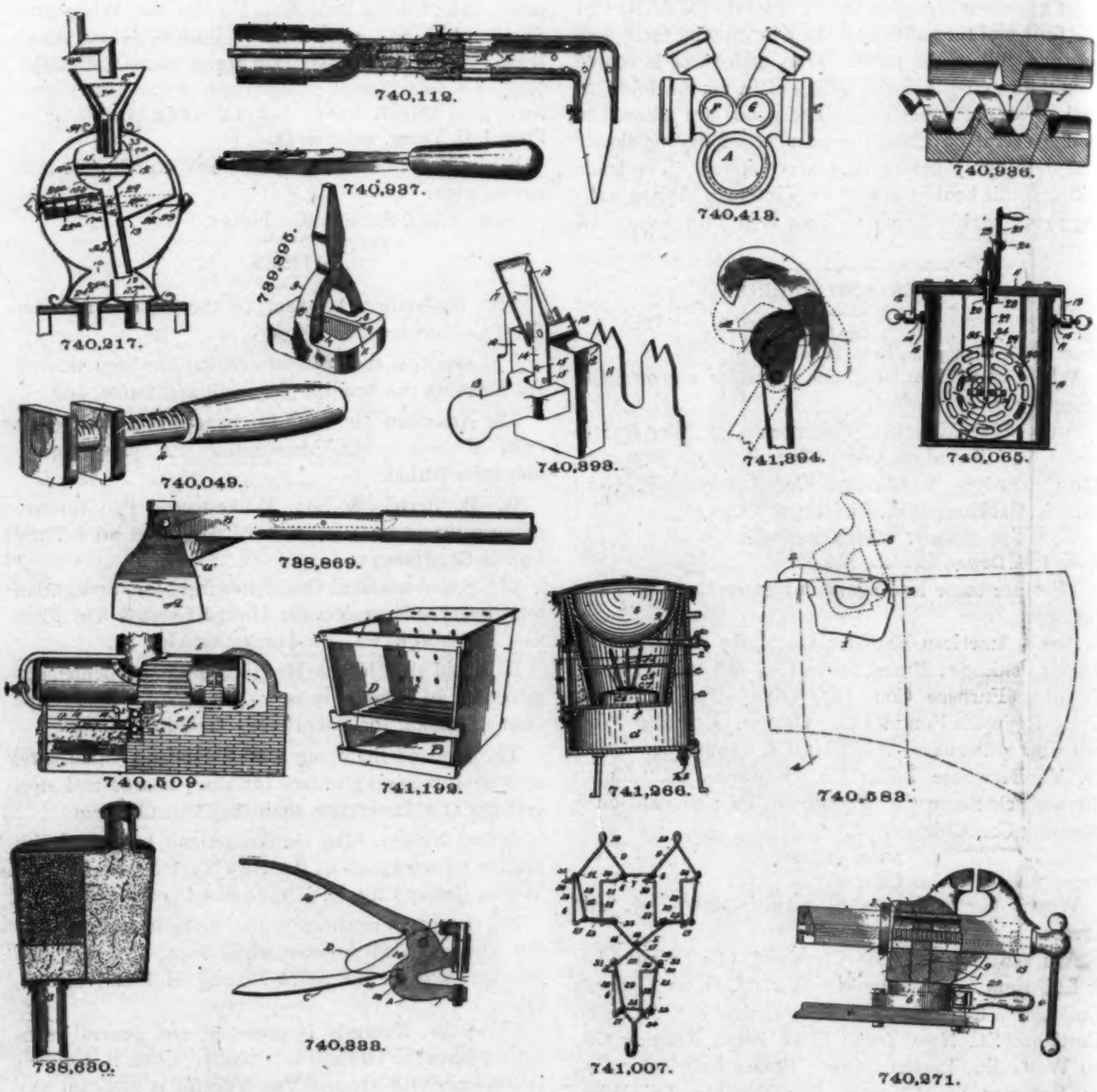
No change is reported in the strike inaugurated by the Amalgamated Association of Iron, Steel and Tin Workers against the Stark Rolling Mill Co., Canton, Ohio.

Orran W. Kennedy is president and general manager, Samuel L. Graham is treasurer, Chas. F. Kefover is secretary and Morton Van Voorhis is assistant secretary and Geo. B. Gerau is assistant general manager of the Superior Slate Mfg. Co., Morgantown, W. Va., capitalized at $100,000.

J. W. Sharpe is president and treasurer and Wm. Meyercord is secretary of the Sharpe Machine Co., Quincy, Ill., who have a temporary office at 834 South Fifth street, that city. This firm are incorporated for the manufacture of metal-working tools and machinery and their specialty will be presses, dies and machinery for the production of articles of sheet metal.

Geo. L. Gray, for a number of years located in Galesburg, Ill., has built up a large business in the manufacture of the Perfect elbow and skylight patterns. He has now moved to New York, where he is located at 53 West 111th street. Mr. Gray has sold his patterns extensively to the trade, who find them wonderfully helpful and accurate. Mr. Gray is a practical sheet metal worker, and is thoroughly conversant with all phases of patterns for this class of work.

NEW PATENTS.



740,217—Automatic cut-off and filter. William W. Bays, Salisbury, N. C.

740,112—Gasolene soldering iron. Fred G. Emmelmann and Harry R. Emmelmann, Indianapolis, Ind.

740,413—Plumber's sanitary cross. John L. Fruin, New York, N. Y.

740,937—Chisel. Newton H. Smith, Bonaparte, Ia.

740,936—Die for auger blanks. Ivan W. Smith, Holyoke, Mass.

740,065—Churn. Benjamin Vesels, Raizon, Mo.

741,394—Wrench. John Bystrom, Chicago, Ill.

740,393—Saw set. Henry Caldwell, Ocosta, Wash.

740,049—Monkey wrench. Samuel P. Shiflet, Versailles, Pa.

739,895—Wrench. John E. Melcher, Wisner, Neb.

740,583—Wedge for ax or tool handles. George P. Morrill, Canterbury, N. H.

741,266—Portable boiler or heater. Robert Meldrum, Kirkliston, Scotland.

741,192—Fireplace and grate. Mary E. Travis, Evergreen, Ala.

740,509—Auxiliary draft for furnaces. Thomas Young, Schnectady, N. Y.

738,869—Folding ax. Charles P. Wing, Hinsdale, Ill.

738,630—Filter. Jacob P. Rummel, Sioux Falls, S. D.

740,271—Vise. Charles J. Haggstrom, Warren, Pa.

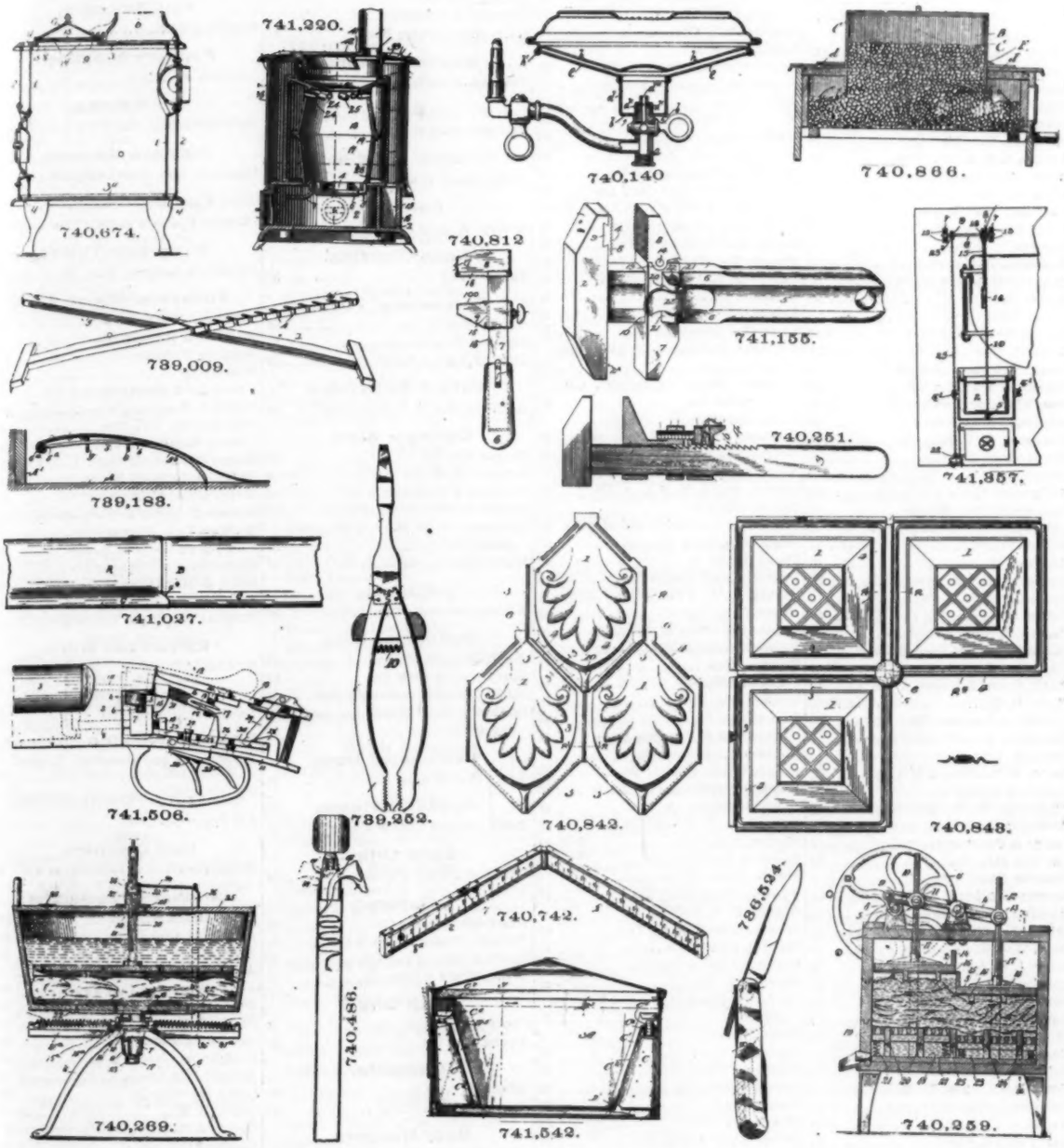
740,333—Hand punch. Charles H. Thurston, Boston, Mass.

741,007—Holder for flat-irons. Jennie V. Askin, Buffalo, N. Y.

A MISSOURI EDITOR'S SCHEME.

A smooth Missouri editor worked a scheme on his delinquent subscribers the other day. "All my subscribers but one have paid up in advance," he wrote, and about a hundred, ashamed to be the only one, dropped in and settled up.—Ex.

NEW PATENTS.



740,674—Stove. Thomas J. March, Pottstown, Pa.

741,220—Stove. Samuel Bredahl, Powhattan, Kans.

740,140—Heater, radiator or stove. Thomas P. Keenan, Brooklyn, N. Y.

740,866—Self-feeding attachment for cooking stoves. Niels Joergensen, West Hoboken, N. J.

741,357—Furnace. Charles J. Monfort, St. Paul, Minn.

741,155—Wrench. John J. A. Miller, Denver, Colo.

740,812—Interchangeable wrench. Oliver E. Covar, Newark, N. J.

739,252—Wrench. Hugh R. Ashby, Mustard, Pa.

740,251—Wrench. Ernest F. Davis, Noank, Conn.

739,009—Carpet stretcher. Peter Kirst, Sheboygan, Wis.

739,183—Carpet stretcher. William F. Kallberg, Stillwater, Minn.

741,027—Eaves trough. Burton H. Gedge, Anderson, Ind.

740,843—Metal ceiling. Albert Friedley, Chicago, Ill.

740,842—Metal roofing tile or shingle. Albert Friedley, Chicago, Ill.

741,506—Lock mechanism for breakdown guns. Oscar Krimse, Whitneyville, Conn.

740,269—Washing machine. Ernest A. Griffin and Hester M. Griffin, Altoona, Pa.

740,259—Washing machine. Peter R. Ensminger, Anaconda, Mont.

741,542—Washing machine. Louis E. Pollard, Denison, Tex.

740,742—Rule. James F. Bush, Waterville, Me.

740,542—Gun-cleaning rod. Henry A. Tellerson, Oakland, Cal.

736,524—Pocket knife. Ernst Kaufmann, Solingen, Germany.

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Dust, Wm. T. Co..... 48
Morris, J. L. Stove Repair Co 49

Stoves and Ranges.
Beckwith, Estate of P. D..... 20
Brand Stove Co..... 10
Champion Steel Range Co 9
Culter & Proctor Stove Co..... 5
Faultless Mfg. Co..... 7
Hess-Snyder Co., The..... 8
Home Pride Range Co..... 62
Joliet Stove Works 3
Lattimer-Williams Mfg. Co..... 4
March-Brownback Stove Co..... 11
Peerless Steel Range Co 8
Pittsburgh Stove & Range Co..... 6
Royal Stove & Range Co..... 5
Smith & Anthony Co..... 9
Willard, Wm. G..... 9

Stove Supplies.
Chicago Furnace Supply Co 18
Sayer Stamping Co..... 48

Stove Trimmings.
Atlas Bolt & Screw Co..... 1
Columbus Bolt Wks..... 1
Helios-Upton Co..... 49
Howes, S. M. Co., The..... 48
Sayre Stamping Co..... 48

Tacks.
Tower Mfg. Co..... 56

Tape Measures.
Lufkin Rule Co..... 61

Tinners' Tools and Supplies.
Berger Bros. Co..... 50
Clayton & Lambert Mfg. Co..... 50
Lufkin Rule Co..... 61
Perkins, J. L. & Co..... 1
Sayre Stamping Co..... 48
Smith & Hemenway Co 47
Stanley Rule & Level Co..... 61
Swaine, Fred J. Co..... 50
Weiss H. & Co..... 46
Young Mfg. Co., The 50

Tinplate.
American Tin Plate Co..... 53
Garry Iron & Steel Co..... 51
Illinois Roofing & Supply Co..... 64
McClure & Co..... 64
Osborn, The J. M. & L. A. Co..... 51

Tinware.
Cooney & Geiger..... 64
Nat. Enameling & Stamping Co... 54
Stuber & Kuck..... 49
Taege, Emil 50

Torches.
Clayton & Lambert Mfg. Co..... 50

Tools.
Geneva Tool Co..... 1
Hurwood Mfg. Co..... 61

Ventilators.
Globe Ventilator Co..... 64
Merchant & Co., Inc..... 50
Pan-Coast Ventilator and Mfg. Co 50
Powers Bros..... 1

Washers.
Columbus Bolt Works 1

Wash Boilers.
Moshiek, P..... 54

Washing Machines.
Benbow-Brammer Mfg. Co. 59
Boss Washing Macnine Co..... 58
Brammer, H. F. Mfg. Co..... 59
Gagan, J. M., & Co 47
McGranahan, S.... 58
Nineteen Hundred Washer Co.... 58
Voss Bros. Mfg. Co..... 59
White Lily Washer Co..... 59

Water Supplies.
Horigan Supply Co..... 56

Weaner—Colt, Calf, Cow.
Cooley, Randegger Mfg. Co..... 47

Wrenches.
Hurwood Mfg. Co..... 61

Wrenches—Miniature.
Davison Mfg. Co..... 57

FLAX FIBER TO LOOK LIKE COTTON.

The Revue Generale des Questions Economiques mentions an incident which may lead to a revolution in the cotton branch of industry, viz., that a Russian engineer, M. Scheveline, has discovered a process by which the fiber of flax and hemp can be transformed into a substance similar to cotton by being treated with the residuum of naphtha. This causes the fiber to decompose and acquire the appearance and qualities of cotton. This substance can then be worked with cotton spinning machinery, and the manufactured article has all the qualities of cotton tissues. No preparation of the flax is necessary; the plant can be used just as it is pulled out of the ground. The inventor does not intend taking out a patent for his discovery; on the contrary, he offers to make his system known to all who ask. This discovery is of great importance to Russia. The area planted with flax in 1900 was about 4,250,000 acres, which produced about 490,000 tons, and this quantity, treated with the new process, would enable Russia to dispense with American cotton. This proceeding would naturally be fraught with serious consequences for other countries. It is estimated that of the 490,000 tons of flax grown in Russia in 1900, 260,000 tons were exported to the United Kingdom, France, Germany and Belgium, in which countries the flax-spinning industry could not exist without Russian flax.

AN ANGELIC APPETITE.

The Cincinnati Inquirer asks: "Do angels eat?" We know one who went through a pint of ice cream, a 20-cent box of chocolates and a quart of peanuts one joyous July night back in 1842.—Ex.

Trade Report.

CHICAGO IRON MARKET.

A large part of the trade of the last week has been for nearby deliveries, and the fact that the tonnage was perhaps a little larger than for the preceding week is owing, in a measure, to purchases being made by concerns having a heavier melt, so that comparatively speaking the trading shows little if any increase.

Speculation still goes on, if the now well-confirmed habit of the consumer to buy as little as possible may be considered as such.

A good deal of talk is going around with reference to curtailment of output, although it is a little early to expect any definite announcement in this direction.

The old problem remains—namely, whether increase in consumption or restriction of output will at an early date result in higher prices.

The prognosticator must be brave to set anything like a definite time for a reaction in the face of so many failures.

STRUCTURAL MATERIAL.

There is a goodly volume of business this week, the leading interest reporting orders for about 6,000 tons of small railway bridges and about 2,000 tons of Structural Material for buildings. Prices remain the same. Inquiries for prices on medium to large Steel structures in Chicago and the West are encouraging producers to the belief that the winter will be an active one. Official prices have continued to be maintained as follows for mill shipment, Chicago: Beams, Channels and Zees, 15 inches and under, 1.75c to 1.90c; 18 inches and over, 1.85c to 2c; Angles, 1.75c to 1.90c rates; Tees, 1.80c to 1.90c; Universal Plates, 2c to 2.25c. Local stocks are being gradually reduced and the market is steady, but the demand is only moderate. The following are the agreed prices: Beams and Channels, 2.10c to 2.25c; Angles, 2.10c to 2.25c; Tees, 2.15c to 2.30c, from local yards.

PLATES.

Prices of Plates continue without any change and show no disposition to cut. The volume of business done is stated to be satisfactory, though it is composed of a multitude of small specifications rather than any individual orders of startling magnitude. Official prices are as follows for shipment from mill: Tank Steel, ¼ inch and heavier, 1.75c to 2c; Flange, 1.85c to 2.15c; Marine, 1.95c to 2.10c. We quote from store as follows: Steel, ¼ inch and heavier, 2c to 2.15c; Tank Steel, 3-16 inch, 2.10c to 2.25c; No. 8, 2.15c to 2.30c; No. 10, 2.30c to 2.40c; Flange Steel, 2.25c to 2.40c, all f. o. b. warehouse, Chicago.

MERCHANT STEEL.

Merchant Steel business is in good condition, reaching within 75 per cent of the high water mark of last year. Orders show clearly, however, that buyers are only supplying their immediate needs. Prices remain firm at the figures named below, the minimum price representing quotations on large contracts. The following are the official prices, f. o. b. cars, Chicago: Smooth Fnished Machinery Steel, 2.01½c to 2.11½c; Smooth Finished Tire, 1.96½c to 2.11½c; Open Hearth Spring Steel, 2.50c to 2.55c; Toe Calk, 2.31½c to 2.46½c; Sleigh Shoe, 1.86½c to 1.96½c; Cutter Shoe, 2.41½c to 2.61½c. Ordinary grades of Crucible Tool Steel are quoted at 5c to 8c for mill shipment; Specials, 12c upward. Cold Rolled Shafting in carload lots sells at 47 and in less than carload lots at 42 discount from list.

RAILS AND TRACK SUPPLIES.

Uncertainties in the financial market have put a temporary damper on the promotion of some large railway propositions, but a good business is being done in Standard Rails and Fittings to replace worn trackage and for minor extensions. A fairly active demand is noted for Light Rails and Splices, chiefly for electric roads and for mining and timber interests. Prices, f. o. b. Chicago, range as follows for shipment from mill in car lots: Standard Rails, $28 to $30; Standard, second quality, $27 to $29; Light Rails, 25 to 12 lbs., $32 to $35; Angle Bars, 1.90c to 2c; Spikes, 2c to 2.10c; Track Bolts, 3½x3¾ inches, 2.75c to 2.85c, with 15c advance for Hexagon Nuts.

WIRE NAILS.

The sales during this month will average those of other years in October. Sales are being made at $2.15 to $2.20 in carload lots, f. o. b. Chicago.

CUT NAILS.

While there has been on open cut in the regular schedule prices, jobbers are said to be able to secure a somewhat better differential than is customary on large orders for immediate shipment. The weakening in the prices of Nail Plate is stated to be counterbalanced by the difficulty in securing nailers, even at the highest wage schedule. Sales are being made on the basis of $2.30 in carload lots and $2.35 for less than carload lots for Steel, Chicago. Iron Nails are quiet, but the supply is only moderate and sales are made at $2.45 to $2.50 per keg from store.

BARB WIRE.

The leading producer expresses satisfaction at the present activity of the market and predicts an excellent winter's business. Galvanized Wire is selling on the basis of $2.75 to $2.80 in carload lots, and Painted at $2.45 to $2.50. For small lots 5 to 10 cents extra is charged. Staples in carload lots sell as follows: Plain, $2.30 to $2.35, and Galvanized, $2.70 to $2.75.

SMOOTH FENCE WIRE.

In line with all Wire products, Smooth Wire is in active demand, the bulk of the business being done

in orders for prompt shipment, though some fairly large contracts for future delivery are being booked at current prices. The market remains steady in tone without change in prices, which are as follows: Nos. 6 to 9, $2.05 to $2.10 in carload lots on track, and $2.15 to $2.20 in less than carload lots from store; Galvanized, 30 cents extra for Nos. 6 to 14, and 60 cents extra for Nos. 15 and 16.

CORDAGE.

The demand for rope is steady and of good volume for the season. The market shows considerable firmness. Quotations, on the basis of 7-16 inch diameter and larger, are as follows: Pure Manila, 11½c to 12c; second grade Manila, about ½c per pound lower; pure sisal, 9¼c to 9½c; mixed sisal, 8¼c to 8½c per pound. It is interesting to note the experiment being made of shipping Manila hemp from the Philippines via the Pacific and overland to Chicago, instead of the usual route via the Suez Canal and New York. The shipment, which is expected to arrive soon, is said to be some 20,000 bales, or about 2,500 tons. Should the experiment result in lower freight charges and a saving of time, it may encourage rope making in the West.

GLASS.

A meeting of the official representatives of the two window glass workers' organizations held a meeting last week. The purpose was the merging of the rival organizations into one, so as to take action as a body should the manufacturers make suggestions of reducing the wage scales, which have already been signed. The workmen were of the opinion that there would be no more glass used if wages were reduced. It is understood the meeting resulted in the merging of the two organizations. If this proves to be so it should go a great way toward restoring the belief in a stable market for the next fire, unless the glass blowing machine becomes a competitor of the older method of making glass. It is reported that the Federation Window Glass Company will be continued, and that the plants will start no later than November 10. The glass factories outside of the combines that are now in operation are said to represent about 525 pots. The assortments of manufacturers' and jobbers' stocks are becoming broken, and it would not be surprising if a number of the factories started up next month. Glass is selling at 90 and 20 per cent discount for the first three brackets and at 90 and 25 per cent discount for all other sizes, both single and double strength, from the list of December 16, 1902. Discounts from the list of October 1, 1903, fluctuate from 90 and 10 to 90 and 15 per cent for all sizes, both single and double strength, according to location. Some Western jobbers are quoting 90 and 25 and 90 and 30 per cent discount from the December 16, 1902, list, subject to their contracts with manufacturers not being taken up on receipt of orders.

LINSEED OIL.

The demand continues active for current requirements, both large and small buyers purchasing according to their immediate needs. It is believed among the trade that an attempt is being made by holders of seed to sustain a fictitious market, while the ideas of large buyers are for 30-cent oil. While it may not reach this figure, a decline in price is anticipated by the time the bulk of the new crop of seed has been shipped to market. Quotations, according to quantity, are as follows: City raw, 39c to 40c; out of town raw, 36c to 38c per gallon.

TIN.

Tin is easy at 25.62½@25.75c for spot in New York, and 25.25@25.50c for October. The jobbing price is steady at 27@28c.

TIN PLATES.

Tin plates are steady and unchanged at jobbing prices: Melyn, $6.50@7; Alloway, $5.75@6.25; coke, $4.87½@6.50; ternes, $5.25@8; additional X, $1.50@1.75 more.

LEAD.

Lead is firm, with the Smelters' Association asking 4.47½c for 50-ton lots and 4.52½c for 25-ton lots. Spot lots in New York are quoted at 4½c. Here the jobbing quotation is firm at 4⅞@5⅛c, according to quantity. St. Louis is dull at 4.30c. Manufactured pipe is steady at 6½c; sheet, 7½c; tin pipe, 50c; tin-lined pipe, 12½c; old lead, in exchange, 3½c; tea lead, 3c.

SPELTER.

Spelter is firm and unchanged at: Round lots, New York, 6c for spot and 5.60c for futures; jobbing, 6¼@6¾c; sheet zinc cask lots, 7⅛@8c; small lots, 8⅛@9c; St. Louis, dull at 5.40@5.45c.

ANTIMONY.

Antimony is dull and unchanged at: Cookson's, 7@7¼c; Hallett's, 6¼@6⅜c; United States Star, 6@6¼c; Italian and French, 6@6⅛c; Japanese, 5¾@5⅞c. The above prices are for round lots in New York.

NICKEL.

Nickel is steady at 40@47c for large lots, and up to 60c for small lots.

PLATINUM.

Platinum is in good demand at $19 per oz for large lots in New York.

QUICKSILVER.

Quicksilver is firm and unchanged at: New York, $47.50 per flask for large lots; small orders higher; San Francisco, steady at $45@46, domestic orders; exports, $42@43.

ALUMINUM.

Aluminum is steady and unchanged at: No. 1 ingot, 33@37c per lb; No. 2, 31@34c; rolled sheets, 4c and up.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x14	$10 25
IC	14x20	7 85
IX	14x20	9 10
IXX	14x20	10 35
IXXX	14x20	11 60
IXXXX	14x20	12 85
IC	20x28	15 45
IX	20x28	17 95
IXX	20x28	20 45

COKE PLATES.

Cokes, 180 lbs.	IC	20x28	9 15
Cokes, 200 lbs.	IC	20x28	9 35
Cokes, 216 lbs.	IC	20x28	9 65
Cokes, 216 lbs.	IX	20x28	11 75

PIG IRON.

Lake Sup. Charcoal	$17 50@$18 50
Local Coke Fdy No. 1	16 00@ 16 50
Local Coke Fdy No. 2	15 50@ 16 00
Local Coke Fdy No. 3	14 50@ 15 00
Local Scotch Fdy No. 1	16 50@ 17 00
Ohio Strong Softeners, No. 1	17 00@ 17 50
Southern Silvery	15 85@ 16 35
Southern Coke No. 1	14 85@ 15 35
Southern Coke No. 2	14 35@ 15 10
Southern Coke No. 3	13 85@ 14 35
Southern Coke No. 4	13 35@ 14 10
Southern No. 1 Soft	14 85@ 15 35
Southern No. 2 Soft	14 35@ 15 10
Alabama Car Wheel	22 85@ 23 85
Malleable Bessemer	16 50@ 17 00
Jackson Co. Silvery	19 50@ 21 50

BLACK SHEET STEEL.

No. 16	per 100 lbs.	$2 65
No. 18-20	per 100 lbs.	2 75
No. 22-24	per 100 lbs.	2 85
No. 25-26	per 100 lbs.	2 95
No. 27	per 100 lbs.	3 05
No. 28	per 100 lbs.	3 15
No. 29	per 100 lbs.	3 30

SMOOTH STEEL.

Wood's Smooth	No. 15-17	2 85
" "	No. 18	2 95
" "	No. 20	3 05
" "	No. 22-24	3 15
" "	No. 25-26	3 25
" "	No. 27	3 35
" "	No. 28	3 45

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON

F.O.B. Chicago 75%

HOOP IRON.

¾x22	¾x20	⅞x20
$3 20 100lbs.	$3 10 100lbs.	$3 00 100lbs.
1x20	1¼x19	1½x19
$3 90 100lbs.	$3 85 100lbs.	$3 75 100lbs.

PAINTED CORRUGATED IRON.

8 x 2½ feet Sheets, 28 gage, per 100 lbs. $3 60

SOLDER.

XXX Guaranteed ½&½ per lb.	19¾c
Commercial ½&½ per lb.	18¾c
No. 1 Plumbers	16 c

SHEET ZINC.

600 lb. Casks	base, per cwt. $6.90
300 lb. Casks	per cwt. 7.10
Sheets	per cwt. 7.15

COPPER.

Copper ..... base, 24c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@4 62½c
Bar	6¼
National (White) brands (in less than 100 lb. lots) per lb	7¼

HARDWARE.

ADZES.

Carpenters'.	
Ajax	50%
Blood's	40&5%
Hunt's	25%
White's	12½%
Coopers'.	
Barton's	20%
White's	15%
Ship.	
Ajax	50%
Blood's	40&5%
Hunt's	25%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F L Waterproof, 1-10s	40c
G D	35c
Eley's	52c
Cartridges.	
Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&3%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal.	$1 18
Peters Blank Ctgs. 32 cal., C. F.	4 40
Peters B B Caps, Round ball	$1 44
Peters B B Caps, Conical ball	$1 85
U. M. C. Rim Fire Ctgs	50&3%
U. M. C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&3%
U. M. C. B B Caps, Round Ball	$1 75..18%
U. M. C. B B Caps, Con. Ball	$1 85 net
U. M. C. Rim Fire Shot Ctgs	50&15&3%
U. M. C. Cent. " " "	25&15&3%
Primers.	
Berdan Primers	$1 00
Peters Primers	1 20
U. M. C. Primers	1 20
Winchester Primers	1 20
Shells.	
Peters Empty Paper Shells, 10 and 12 gauge. League	25&3%
Peters Empty Paper Shells, 16 gauge. League	30&3%
Peters New Victor Nitro Shls	30&3%
Ideal	35&7%
Peters Loaded Shells. League and Referee Semi-Smokeless	40&1%
Peters New Victor Loaded Shells with King's Smokeless	40&6%
Ideals Loaded with King's Smokeless	40&10&1%
U. M. C. New Club, 16 gauge	30&2%
U. M. C. New Club	25&2%
U. M. C. Nitro	20&2%
U. M. C. High Base	20&2%
Winchester Blue Rivals } Winchester Yellow Rivals }	40&1%
Winchester Repeater	30&2%
Winchester Leader	40&6%
U. M. C. Loaded Shells, Black Powder } Winchester Loaded Shells, Black Powder }	40&1% full cases
U. M. C. } Winchester }	Smokeless 40&10&10&1% full cases
Gun Wads—per 1,000.	
Peters Gun Wads	18%
U. M. C. Gun Wads	18%
Powder.	Each
King's Smokeless, kegs	$11 30
" " ½ kegs	5 80
" " ¼ kegs	2 97
" " 1-lb. cans	51
" " 1-lb. " rifle	70
Dupont's " 50-lb. drum	22 45
" " 25-lb. kegs	11 30
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs	2 97
" " 1-lb. cans	51
Shot.	
Dropshot, sizes smaller than B, 25-lb. bags, per bag	$1 60
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 85
Buck Shot, 25-lb. bags, per bag	1 85
Chilled Shot, 25-lb. bags, per bag	1 85

ANVILS.

Trenton, 70 to 80 lbs	9¾c per lb
Trenton, 81 to 150 lbs	9c per lb

AUGERS.

Boring Machine	60&10&5%
Carpenters' Nut	60&10&5%
Hollow: Ives' New Pattern	25%
Bonney's—list $30.00	65&10%
Stearn's, No. 1 ..... *doz.*	$42 00
Stearn's, No. 3 ..... "	33 50
Post Hole.	
Dalbey, 8-inch ..... per doz.	$ 5 75
Digwell, 8-inch ..... "	13 00
Howe's, 6 and 8-inch ..... "	12 50
Iwan's Improved	40 & 5%
Vaughan's, 6 to 9-inch per doz.	6 75
Bafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw,	40-5%
Snell's, " " "	40-5%

AWLS.

Brad, handled	per doz.	$0 28
shouldered, ass'd, 1 to 4	per gr.	95
patent, asst'd, 1 to 4	"	90
Harness, common	"	1 10
patent	"	90
Peg, shouldered	"	95
patent	"	40
Scratch, No. 2, handled	"	4 40
No. 1, socket handled	per doz.	1 15
No. 20 Hurwood	"	2 00
Sewing, common	per gr.	90
patent	"	90

AXES.

Boys', Handled:	
Camp Fire, 3-lb., per doz	$5 75
" " 4-lb., freighters', per doz	6 75
Cast Steel, good grade, pr. dz.	5 50
Pioneer, per doz	6 75
Broad:	
Peerless	50%
Red Warrior, per doz	$18 50
Firemen's, per doz	15 50
Single Bitted (without handles)	
Gladstone, per doz	$6 75
Hubbard's " "	6 50
Hunt's " "	6 25
Lippincott's " "	6 25
Mann's " "	6 50
Pioneer " "	6 50
U. S. A. " "	7 75
Valley Forge " "	6 00
Second Quality " "	5 75
Double Bitted (without handles):	
Lippincott's per doz	$8 50
Mann's " "	8 50
Pioneer " "	9 25
U. S. A. " "	11 00
Valley Forge " "	8 25
Ship, Blood's " "	18 50

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BAGS, PAPER NAIL.

Pounds..	3	5	10	16	20	25
Per 1,000	$1 60	1 85	2 60	3 40	3 90	4 75

BARS, CROW.

Pinch or Wedge Point ..... cwt. $3 40

BEAMS—SCALE.

P. S. & W. Co 40%

BEATERS.

Carpet, Rattan	per doz	$2 40
Raymond's Steel Wire,	"	80
Woven Wire, No. 4	" "	1 10
Egg.		
Dover Pattern	per doz.	$0 70
Genuine Dover	"	0 90
Mammoth Dover	"	1 75
Lightning	"	0 84
Lyon's (standard size)	"	1 75
Whip, French	"	1 35
Spiral	"	0 40
Spoon	"	0 40
Surprise	per gro.	1 45

BELLOWS.

Blacksmiths'		70&5%
Hand, 8 in.	per doz.	$ 6 85
10 in.	"	8 40
Molders', 12 in.	per doz.	13 00

BELLS.

Call.		
2¾ in. nickeled bell	per doz.	$ 1 35
2¾ in. " brass bell	"	3 60
3 in. " " " "	"	7 50
3 in. " silver alloy bell,	per doz.	16 50
4½ in. " brass bell and base	per doz.	14 50
Cow.		
Ordinary Goods		70&5%
High Grade		60&10%
Jersey		70&10%
Door.		
Bigelow Automatic	per doz.	$9 50
Rotary.		
3 in. bronzed iron bell	"	5 25
3 in. nickeled " "	"	7 50
3½ in. " " " "	"	9 00
Hand.		
Hand Bells, Polished		60@60&10%
White Metal		50%
Nickel Plated		40%
Swiss		60&5%
Silver Chime		33⅓%
Miscellaneous.		
Church and School, Steel Alloy,		50, 10 & 5%
Farm, lbs... 40 50 75 100		
Each. $1 10 $1 30 $1 85 $2 65		
Miscellaneous Cont.		
Strapped Sheep	per doz.	$1 90
House Gong		40&5%
Sleigh, Round, Loose		40&5%

BELTING

Leather—List dated Nov. 12, 1901.	
Standard	75%
Eclipse	60-10&5%
Extra Grade	50&10%
Rubber—	
Standard	75&5%
Amherst	65&10%
Extra	60&2½%

BEVELS—TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley' ron handle	40&5%

BINDING—OIL CLOTH.

Zinc	75, & 10%
Brass	75%
Brass Plated	75 & 10%
Auger. BITS.	
Extra Double Spur	70&5%
Ford's Car and Machine	40&10%
Ford Improved	40&10%
Ford's Ship	40&10%
Irwin	30&10%
New Jenning's	50%
Russell Jenning's	25&7½%
Clark's Expansive	50, 10&5%
Steer's " Small new list	$22.0
Irwin Car	30&10%
Snell's Car	60&5%
" Ship	40&5%
" " Auger Pattern Car	40&5%
Center	40&10%
Countersink—	
Wheeler's ..... per doz.	$1 60
American Snail Head "	0 70
" Rose " "	0 80
" Flat " "	0 70
Buck Bros'. Flat "	2 60
German "	0 70
Dowel, New Jennings	40&10%
Gimlet—	
Standard Double Cut	50&5@50&10%
German Pattern ..... per doz.	$0 48
Gouge "	0 80
Spoon "	0 80
Countersink "	1 30
Reamer—	
Buck Bros.' ½ Round. "	2 75
" " Square "	2 50
Standard ½ Round "	0 75
" Square "	0 75
German Octagon "	0 75
Screw Driver—	
Round Shank "	0 48
" " extra quality "	1 40
Square Shank "	1 10

BLACKING—STOVE (See Polish.)

BLADES—SAW.

Butchers'—	
Standard ¾ & 1¼in	60&5%
Clock Spring	60&5%
Star	30%
Hack—	
Disston's	25&5%
Griffin's	35&5%
Star	30%
Wood—	
Jackson's ..... per doz.	$2 25
Disston's—No. 6, 16, 26 & 045, $4 20; No. 11, $6.30.	
W. M. & Co.'s No. 20 ..per doz.	$5 50

Snatch— BLOCKS.

Wooden	50&10%
Steel	40&10%
Tackle—	
Wooden	70&5%
Steel	50, 10&5%

BOARDS.

Stove	40%
Wash—	
Anchor ..... per doz.	$1 60
Globe "	2 10
Banner "	2 60
Crystal "	3 15
Brass King "	3 15
Nickel Plate "	3 15
Enamel King "	3 15

BOBS—PLUMB.

Carpenters', 8½ oz. iron ..pr dz.		$0 65
1½ lb. " " "		1 60
2¾ lb. " " "		1 80
13 oz. lead	"	3 00
6½ oz. brass	"	3 30
Mason's, 3 lb. lead	"	4 00

BOILERS—FARM.

Profit	30&5%
Solon	35&5%

BOLTS.

Carriage, Machine, Etc.	
Carriage, ⅜x6¼ and sizes smaller and shorter	70&5%
Carriage, ⅜x6¼ and sizes larger and longer	70%
Machine	70%
Elevator	50-10&5%
Plow	45&5%
Stove	80-5%
Tire	75½&5%
Wagon Box Strap	70&10%
Mortise Door—	
Gem	50-10&5%
Ives'	50&10%
Barrel—	
Cast	50%
Wrought	50&5%
" Bronzed	75&5%
Flush, Wrought, B. K.	40&5%
Spring—	
Wrought	75&10%
" Brass	75&10%
Square—	
Cast	40%
Wrought	60-10&10%

BORERS.

Angular, Miller's Falls, per doz			$12 75
Bung, Common Ring with Handle— Inches	1½	1¾	2
Per doz	$6 00	6 90	8 10

BORERS—CONTINUED.

Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each....25-10&5%

BOXES.

Mail, No..... 5 10 20
Per doz.....$3 65 10 50 13 00

Miter—
New Langdon.....15&5%
Olmsted's 15%
Stanley's.....30%
Seavey's .....per doz 8 00

Twine, Nos... 20 30 25 121
Per doz $1 50

BRACES.

Common Ball.....$1 35@1 45
Barbers' Pattern .....60&10%
Fray's Gen. Spofford's.....50&10%
" No. 66 to 146.....50&10&7½%
P. S. & W. Co.'s Peck's Adjustable.....50-10&5%

BRACKETS.

Hay-Rack, Wenzelmann's No. 1, $12.60; No. 2, $13.20 per doz.

Shelf—
Cast Iron, Plain .....50&10%
Stanley's Wrought Steel.....
..... 70-10&2½%
Wire.....75-10&5%

BROILERS.

Wire .....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.

Pump Rubber—
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion ..... " 7 50
Victor ..... " 9 50
Star..... " 5 00
IXL..... " 6 75

Well—
Galv'd Qts..... 8 10 12
Per doz $2 50 2 85 3 15
Wooden, top ear, plain, per doz 3 50
" " swivel " 4 60
" side-strap, plain " 3 60
" " swivel " 4 75

BUCKS, SAW.

Folding .....per doz $1 75

BURS, RIVETING.

Copper Burs Only.....35-10&5%
Tinners' Iron Burs Only.....70%

BUTTS.

Cast-Iron.....65&10%
Wrought Brass.....20%
Wrought Steel Bright—
Nos. 800, 804, 808, 810, 814 and 834
..... 70-10-10&5%
Nos. 838, 840 and 842 ...70-10-10&5%
Nos. 822 and 828..... 75-25-10-10&5%
Wrought Steel, Japanned—
Nos. 731 and 737.....70&10&10%

CALIPERS.

Double .....40&10%
Inside and Outside.....40&10%
Wing.....40&5%

CALKS.

Logger's Boot,(Lufkin R. Co's.)
.....per M $3 65

Toe.
Shoenberger.....per lb. 5c
Bessemer ..... " 5½c
American ..... " 7½c
Swedes..... " 8½c

CANS.

Cheese Factory Can Stock—
Gallons.... 15 20 30 40
Per set....$2 90 $3 15 $3 75 $4 75

Milk
Elgin Pattern,
Nos.....808, 810, 88.
Gal. 8 10 8
per doz. ...$22.50 $22.75 $23.15
New Elgin Pattern,
Nos. 106 108 110
Gal. each. 5 8 10
Per doz., $16.75 $18.50 $19.85
Iowa Pattern.
Nos. 508 610
Gal. 8 10
Per doz. $21.50 $22.75
New York Pattern,
Nos. 908, 910,
Gal. each, 8 10
Per doz. $25.15 $26.95

Oil—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals..... 1 2 3
Per doz..... $1 85 $3 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket.....50-10&5%

CAPS—GUN.

See Ammunition.

CARRIERS.

Hay—
Myers' Imperial.....each $3 40
" Clover Leaf..... " 3 40

CARTRIDGES.

See Ammunition.

CASTERS.

Acme—Ball Bearing.....35%
Bed.....60&10%
Common Plate—
Brass wheel.....60&10%
Iron and porcelain wheel...50&10%
Philadelphia Plate.....65&10%
Martin's.....40-10&5%
Payson's..... 75%
Tucker's—Wood and iron wheel..70%
" Rubber wheel.....65&10%

CATCHERS—GRASS

Lieder's No. 1.....per doz, $6 25
Eureka..... " 4 25
Ideal No. 4..... 50

CHAIN AND CHAINS.

Breast Chains—
Doubleslack.....doz. pairs $5 00
With Covert snaps " 4 75
" slide..... " 2 90
Without slide..... " 2 60

Bright Ox Chains—
5-16in. $6 75: ⅜in. $5 75 per 100 lbs.

Bright Coil Chain—
American, new list.....33⅓%
German.....60-10&5
Triumph, new list.....30%

Cable Coil Chain—
Inch..... 3-16 ¼ 5-16 ⅜
Per 100 lbs...$9 75 $7 25 $5 90 $4 75
Inch ..... 7-16 ½ ⅝ ¾
Per 100 lbs...$4 60 $4 50 $4 35 $4 25

Cable Log Chain—Advance 25c per 100 lbs. on Cable Coil.

Cow Tie Chains—
American 2 toggle.....40-10 & 5%
" toggle and snap, 40-10&5%
" open and closed ring.....40&5%

Halter Chains—
American, new list.....33⅓%
German.....60-10&5%
Niagara, new list.....40&5
Triumph, " 30%

Jack Chain—
Brass.....60%
Iron.....60%

Picture Chains—
Light Brass, 3 ft.....per doz. 63c
Heavy " 3 " ..... " 75c

Pump Chain—Galvanized per 100 lbs.....$4 45

Safety Chain—Brass.....60&10%

Stretcher Chains—
5-16 in., $7.75—⅜in , $7.00 per 100 lbs.

Tie-Out Chains—Browns.....70&10%

Trace Chains—Western Standard—
6½— 5-2..... .....per pair 26c
6½— 5-2..... " 30c
6½— 5-3..... " 29c
6½—10-2..... " 35c
7 —10-2..... " 40c
Add 2c per pair for Hooks.
" 2c " for Twist Link.

Wagon Stay Chains—
Inch ¾ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.25

Well Chains—
With Swivel.....per doz. 95c
Without " ..... " 80c

CHALK-CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l
Crayon..... " 5½c

CHARCOAL.

In barrels .....per bu. 21c

CHECKS-DOOR.

Blount 30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia.....50, 10&5%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box—
Inches..... 10 12 14
Round....per doz. $2.10 $2.25 $2.75
Flat.....per doz. 2.85 3.60 4.20

Cold—
Good quality.....per lb. 12@ 20c
U.S.A., extra quality..per lb. 28c

Socket, Framing and Firmer—
Barton's..... 20%
P. S. & W. Co's..... 70%
For beveled back, add..per doz..... 60c

Tanged, Firmer—
P. S. & W. Co's.....35&5%
With Handles add... per doz. 60c

Choppers, Enterprise Meat—
No. 12.....$2 75
No. 22..... 4 50

CHUCKS-DRILL.

Standard Tool Co.'s 40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6.25
Yankee, for Yankee Screw Drivers..... 5.00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each $3.85 4.10 4.30
Belle, Barrel.....70&5%
Common Dash, Gal..... 4 5 7
Per doz..... $6.75 7.50 8.00
Hero.....70%
Union, Gal..... 5 7 10
Each $3.65 3.90 5.00

CLAMPS

Adjustable—Martin's 40%
Carpenters'—Steel Bar..... 50%
Carriage Makers'—P. S. & W. Co.'s.....40, 10&5%

Hose—
Sherman's, brass, ¾ in., ...per doz. 33c
Double, brass, ¾ in...per doz. 65c

Saw Filers—
Disston's list, $30.00..... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's..... 40%

CLAWS-TACK.

Cast, wood hdle...per doz., 45@ 60c
Forged steel, wood handle .....per doz. 80c
Solid Steel.....per doz. $1.60
Giant..... per doz. .60

Drain— CLEANERS.

Iwan's Adjustable.....50%
Iwan's Stationary.....40%

Pot—Wire.....per doz. $0.45

Side-Walk—Steel.....per doz. 3.15

Window—
Peerless.....50, 10&5%
XLCR.....65&10%

CLEAVERS.

Family—Ajax, In..... 6 7 8
Per doz $5 50 5 75 6.25

CLEVISES.

Malleable.....per lb. 4½c

CLIPS.

Axle.....65&5%

Damper—
Standard .....per doz. $0.70
Troy ..... " .38

Hame..... " .30

Emery— CLOTH.

Ajax.....50&10%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " 2.15
2 to 8 " galv, " " 2.70
7 and 8 " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.

Screen Wire—
12 mesh, painted, per 100 sq. ft. $1.20
14 " " " " 1.85

COCKS—BRASS.

Compression Bibb.....60&10&5%
" Lock.....60&10%
Lever Bibb.....60&10%
Liquor .....per doz..$8 75
Racking .....60&10%

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '93...25%
Parker's.....50%
Arcade.....60&10%

COLLARS—STOVE PIPE.

Inches 5 6 7
Plain Tin....per gr. $2.50 $2.80 $3.75
Japanned Tin, " 3.90 4.20 5.40
Lacquered Brass" 3.30 3.60 4.80

COMBS—CURRY.

Nos. 000 20 231 330 417 416
Per doz. $0.22 .80 1.00 .95 .80 1.00
Nos. 531 533 530 535 545 290
Per doz $0.96 1.20 1.10 1.65 1.40 1.30

COMPASSES.

Carpenter's..... 70%
Pencil—Faber's.....per doz. $1.00

COOLERS—WATER.

Galvanized Lined—Lever Faucet.
Gal. 2 3 4 6 8
Each $1.35 1.65 2.00 2.35 2.95

Galvanized Lined—Telegraph Faucet
Gal. 2 3 4 6 8 10 15
Ea $1.65 2.00 2.35 2.65 3.30 3.65 4.90

Porcelain Lined—
Gal. 3 4 5 6 7 8 10
Ea $4.50 5.75 7.00 7.75 8.60 10.40 12.25

COPPER—SEE METALS.

COPPERS.

Soldering—1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.

Picture—White Wire—List October 1900.....80&10%

Sash—
Baltic Braided Flax...per lb. 21½c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot " 30½c
Silver Lake, white " 26½c
" " drab " 31½c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS—SPRING.

5-16 in. and smaller..... .....80&5%
⅜-in. and larger.....75%

COUPLINGS—HOSE.

Brass .....per doz. $1.00
Brass Plated..... " .85

COVERS, WAGON—SEE TENTS.

CRADLES—GRAIN.

Morgan's Grapevine ..per doz. $21 00

CRAYONS—SEE CHALK.

CROOKS—SHEPHERDS'.

American Pattern .....per doz. $6 75
Montana " ..... " 8 00
Scotland " ..... " 8 00

CROW BARS.

Pinch or Wedge Point, per 100 lbs..... $3 40

CUTTERS.

Meat—
Enterprise Nos. 5, 10, 12, 22, 32, and 42.....25%
No. 100, list, $18.00.....40&10%
Nos. 2 and 4.....35%
Ideal.....per doz. $9.75
Universal....No. 1 2 3
Per doz.....$10.75 $13.00 $18.00

Pipe-Stanwoods No. 1 2 3
Each.....$ .85 1.50 4.00

Slaw and Crout—
3-knife Crout.....per doz. $9.25
1 " Slaw..... " 1.50
2 " " ..... " 2.10

Washer.....7.75

DAMPERS—STOVE PIPE.

Standard.....50&10%
American.....40&10%

DIES—STOCKS AND

Discount..... 40%

DIGGERS.

Post Hole—
Iwan's Split Handle..per doz. $8.00
Iwan's Perfection....per doz. 8.00

DIVIDERS.

Wing 70%
Extension Wing..... 35&5%

DIGGERS—POST HOLE.

Atlas.....per doz. $8.50
Eagle..... " 6.25
Eureka..... " 6.50
Hercules ..... " 10.25
Ryan's..... " 17.00
See also Augers—Post Hole.

DOORS—SCREEN.

⅜ in. 4 panel painted per doz. $ 6.75
½½ " " " " 7.25
In. 4 panel natural pine, fancy.....per doz.. 11.25

DOOR HANGERS—BARN.

Single Flange, D. B. Rail, ...per 100 ft. 1 60

Novelty Check Back, ... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.95 $6.25

DRILLS.

Bit Stock.....60%&65&5%
Blacksmith's Twist.....60%

Breast—
Common.....each, $2.25
Millers' Falls..... " 2.10

Hand—
Goodell's Automatic—per doz.
No. 01 No. 03 No. 3 No 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " 12.50
" " Double " " 15.00

Reciprocating—
Goodells'.....per doz. $17 00

Bit Stock.
Standard List....60&5%@60%@10%

DRIVERS—SCREW.

Hurwood .....40&10%
Standard.....65&10%
Ajax.....70&5%
Champion.....50%
" Pattern.....75&5%
Clark's Interchangeable.. .... 33⅓%
Edison.....60%
Reed's Lightning.....50%
Goodell's Spiral.....50&10&5%
Yankee Ratchet.....50%
" " Spiral.....50&10&5%

ELBOWS.

Conductor.....,60%

Adjustable Stove—In. 5 6 7
Smooth....per doz. $0.95 0.95 1.40
Plan'd..... " 2.15 2.35 3.00

Corrugated Stove—In. 5 6 7
Smooth.....per doz. $0.95 .95 1.40
Pol'd..... " 1.70 1.75 2.60
Plan'd..... " 2.60 2.85 3.50

Four-Piece Stove—In. 5 6 7
Smooth....per doz. $0.57 .60 .92
Pol'd..... " 1.00 1.05 1.50
Plan'd..... " 1.50 1.70 2.60

EMERY—TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs.
No. 60 to 150, ⅌ lb. 6½c 4¾c 4½c
Flour.... " 5½c 3¾c 3½c

ENAMEL—IRON.

English, ½-pt. cans...per doz. $1.50
Nubian, " " ... " 1.80
O. V. B., " " ... " 1.25
Peerless " " 1 50

EXTRACTORS—PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B.W.
Drifting Pick.....60&10%

Hooks and—
Brass.....60&5%
Iron .....65&10%

FASTENERS, STORM SASH.

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FASTENERS, BLIND.

Zimmerman's.....Net

FAUCETS.

Angle Plug.....per doz. $0 84
Brass—Andrew's .....60&10%
Petroleum.....60-10&5%
Wood—Cedar .....40&50%
Cork Lined.....60%
Metal Key.....65&5%
Measuring—Enterprise.....35&5%
See also Cocks.

FILES AND RASPS

Arcade .....75&5%
Black Diamond.....70&10%
Disston's .....75&10%
Great Western.....75&5%
Keystone Mill.....80&20%
Kearney & Foote .....75&5%
Mill, 2d quality.....80&10 &5%
New American .....75&10&5%
Nicholson's .....70&10%
Royal Mill .....80@20%
N. S. A.....70&10&5%

FILTERS.

Improved Natural Stone. $2 50@13 50
Subject to large discounts.

FORCEPS—PIG

Barber's.....per doz., $7 25
Superior..... " 4 75
Whisson's Imp..... 6 00

FORKS

Barley—
Steel.....66⅔, 10&5%
¼ ood, 4 tines, $5.25; 6 tines, $6.25 doz

Coal 50%
Coke 50%
Cottonseed 50%

Hay—
Diamond, 2 tine.....50, 10&5%
" 3 " .....60&5%
" 4 " 66⅔%
Golden Eagle, tine 60,7½,10,10&5%
" " " ..66⅔,10,10&5%

Digging..... .....65&10&5
Scoop 50

FORKS—CONTINUED.

Header—
Diamond, 2 tine.....67½&10&5¢
" 3 " .....65¢
" 4 " .....65¢
Golden Eagle, 4 tine.....10&10&5¢
Manure—
Diamond .....60 20, 10&5¢
Golden Eagle.....60, 20, 20&5¢
Ore.....70&10¢
Spading—
Diamond .....70&2½¢
Golden Eagle.....70&2½¢

Hack Saw— FRAMES
Crown.....per doz., $ 6 25
Miller's Falls..... " 10 00
Star..... " 2 85

FREEZERS—ICE CREAM

Arctic—Qts... 1 2 3 4 6
Each.....$1 10 1 30 1 50 1 75 2 30
Qts..... 8 10 12 15
Each.....$2 85 3 75 4 50 5 20
White Mountain, with Crank—
Qts..... 1 2 3 4 6
Each.....$1 20 1 65 1 90 2 10 2 70
Qts..... 8 10 12 15
Each.....$3 60 4 60 5 90 7 00

GATES.

Molasses and Oil.
Perfection.....50&5¢
Stebbin's.....75&10&5¢

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s..20&10&2½¢
Cream Pail, Fairmont, per doz..$3 75
Marking, Mortise, etc.....
....50&10¢@50&10&5¢
Saw—Atkin's sgle. 55c, dbl. 80c pr doz.
Wire.
Disston's.....25¢
P. S. & W. Co.'s.....20¢

GIMLETS.

Discount..... ....40@40&10¢

GLASS—WINDOW.

Single and double strength, 6x8 to 16 x24..... 90&5¢
Larger sizes.....90 10&5¢

GLASSES—LEVEL.

Stanley R. & L. Co.....50&5¢

Bulk. GLUE
B Amber .....per lb 9¾c
A White.....per lb 12½c
H. S. Amber.....per lb 17 c
Liquid.
Eagle ....40 ¢
LePage's—
List "A".....37½¢
List "B".....33⅓¢
List "C".....25 ¢

GOODS.

Bright Wire.....80&15¢

GREASE, AXLE.

Wood Boxes.
Diamond.....per gr. $5.00
Frazer's..... 9.25
Hub Lightning..... 5.25
Paragon..... 6.75
Wood Pails.
Frazer's, 15 lb. 78c, 25 lb. $1.30 each
Hub Lightning, 15 lb. 52c, 25 lb. 68c each.
Tin Cans.
1 lb. Frazer's carriage, pr. doz. $1.30
1½ lb. " wagon.. " 1.80
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

Soapstone.....40&5¢

GRINDSTONES

Family—In..... 7 8 9
Per doz $8 25 9 50 11 00
Loose.
Per ton .....$20 00@$21 00
Mounted—
Ball Bearing..... 1 2 3
Each $3 40 3 25 3 15
Common Bearing.. 1 2 3
Each $2 90 2 70 2 55

HAFTS—AWL

Brad—Common.....per doz., $0.18
Peg—
Common..... " 21
Patent, plain top..... " 46
" leather top .. " 52
Sewing—
Common..... " 21
Patent..... " 53

HALTERS

Jute Rope.....per do $0 80
Sisal Rope..... " 1 95
Web ..... " 2 10
Leather, rope tie..... " 6 25
" leather tie... " 8 25

HAMMERS—HANDLED

Blacksmiths' Hand
Maydole's .....40&10¢
Engineers'—
Maydole's .....40&10¢
Farriers'.
Maydole's .....35&5¢
Machinists'.
Maydole's .....40&10¢
Nail.
Ajax.....per doz $5 75
Ca'umet..... " 3 40
Cast..... per doz $1 10@$1 50
Maydole's .....30&7½¢
Vulcan .....35&5¢
Riveting.
Maydole's.....35&5¢
Shoe.
Cast.....per doz 75c

Tack.
All Iron .....per doz $0 35
Pol'd Iron, Hickory hdl " 0 52
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz..... 70c 80c 95c
Magazine.....per doz $4 75

HAMMERS—HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10¢
5 lbs. and over .....75¢
Masons'—Single & Double Face..75¢
Auger. HANDLES.
Common Ass'd.....per doz $0 36
Peck's Adjustable.... " 2 10
Roger's " .... " 4 15
Ives' " ....per set 1 25
Axe......40¢
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .....per doz 24c
Coal Pick.....40¢
Drifting Pick.....40¢
File, assorted 13c. large 16c per doz.
Hammer.
Adze Eye.....per doz 42c
Blacksmiths'.....per doz 45c@65c
Machinists'..... " 39c@58c
Hatchet.....per doz 42c
Hay and Manure Fork.....40&10¢
Hoe and Rake .....40&5¢
Saw, Plain 72c, Varnished 68c per dz.
Screw Driver, Assorted 42c, Large 48c per doz.
Shovel and Spade ..... .40¢

Barn Door—HANGERS
King .....per doz. prs., 5 00
Monarch .....60&10¢
"Never Jump" Hinge.....50&10¢
Peerless, Loose Axle.....60&10¢
Perfection, Roller Bearing..70&5¢
Phœnix, Roller Bearing... 70&5¢
Prouty .....per doz. prs., $5 50
Rival. ..... " " 3 90
Superb ..... " " 6 25
Safety Flexible " " 6 65
Wagner's Adjustable.....70@10¢
Warehouse .....60¢
Conductor Pipe—
Iwan's Perfection.....50¢
Parlor Door—
Acme.....per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard..... " 3 50
" New Model.... " 2 80
Prouty..... " 3 00
Lundy.....50&10¢
Eave Trough—
Baker's.....per gr., $2 60
Imperial .....10¢
Wire .....25¢

HASPS.

Hinge, Wrought.....70&5¢
With Staples—See Staples.

HATCHETS.

Ajax .....40&10&5¢
Blood's.....40&10¢
Cast Claw.....per doz $1 50@$1 75
Cast Shingling.... " 1 20
Duffy's Barrel.....per doz 17 50
Germantown ..... 35&5¢
Hammond's .....30&10&5¢
Roger's Ideal.....per doz $5 25
Underhill's Star Lath.....40¢
S. A.....30&10¢

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz...$12 60
" No. 2, " ... 13 20

HINGES.

Blind.
Clark's Gravity, per doz sets....80c
Parker's.....65¢
Shepherd's Noiseless, for Wood casing.... .....doz. $1 05
Gate.
Clark's, 1 2 3
Hgs & Ltchs. dz.. $2 35 $2 60 $3 60
Hinges Only, " .. 1.70 1 90
Latches Only, " .. 0 70 0 75
Knuckle.....per doz prs $6 00
Leed's..... " sets 6 75
Superior ..... " prs 9 25
Spring.
American.....25¢
Bommer Bros. Ball B'g Floor 40-10¢
Bommer Bros. Spring Hinges 40¢
Chicago.....25&5¢
Clover Leaf.....per gro $9
Columbia Dbl. Acting....40&10&5¢
Gem .....25¢
Ideal Detachable,....per gro $12 00
New Idea ..... " 9 60
Oxford.....20¢
Wrought Iron.
Light Strap Hinges.....80&10¢
Heavy Strap Hinges.....
.....80-10-10&5¢
Light T Hinges.....75-10&10¢
Heavy T Hinges.....75&10¢
Extra Heavy T Hinges.....
.....80-10&5¢
Cor. Heavy Strap .....80-10-10&5¢
Cor. Ex. Heavy T .....80-10&5¢
Screw Hook and Strap.
6 to 12in..... per 100 lbs. $4.00
14 to 20in ..... " " 3.75
22 to 36in ..... " 3.50
Screw Hook and Eye.
¾ to 1in .....per 100 lbs. $6.50
⅝in ..... " " 8.00
½in ..... " 10.00

HOES.

Garden.....70&10¢
Grub:
Ajax .....50&10&5¢
Extra.....60&10¢
Hazel.....per doz $6 25
Ladies' and Boys'.....70&12½¢
Mortar.....70, 10&10¢
Planter's Eye.....75&12½¢
Weed .....70, 10, 10&5½¢

HOOKS.

And Eyes.
Brass .....50&10&5¢
Iron.....65&10¢
Awning.....per gro $1 80
Belt.....75&5¢
Bench—See Stops, Bench.
Box, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Humason & Beckley's...pr dz $2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle
.....per doz $7 00@$8 50
Hamilton Pattern.....per doz $7 25
Chain—In. ¼&5-16 ⅜ 7-16 ½
Per 100 $7 50-7 75 $9 50 $11 25 $12 00
Clothes Line.
Japanned.....per doz 21c@22c
Galvanized..... " 35c
Coat and Hat.
Cast Iron.....per gro 72c@$1 00
Gem Wire.....65&10¢
Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought.....40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 30
" polished... " 1 70
"Cut Easy," .....per doz. 2 65
Clyde's, ... " 2 40
Brooke's..... " 2 65
Gate.—See Goods, Bright Wire.
Grass.
Common, Nos. 2 3 4
Per doz..... $1 70 $1 75 ——
German .....per doz $1 90
Little Giant..... " 3 10
Wood's..... ... " 1 30
Hammock.
Common..... " 21c
With Plate..... " 36c
With Screw..... " 36c
Piggot's..... " $1 05
Lambrequin or Drapery...per gro 21c
Picture.....50¢@50&10¢
Potato and Manure.....60&15¢
Screw, Brass.....80&20¢
(See Goods, Bright Wire.)
Seat Spring .....per lb 6½c

HOOPS—TUB.

Ever Ready..... per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
Black, pr ft. 7½c 8½c 9½c 10½c 12½c
Cotton, 3 ply.....per ft 6½c
Red, 3 ply ..... " 7½c

HUSKERS.

Boss.
Nos. E A B P PX
Dz. $1 85 $2 00 $1 95 Gr. $5 90 $5 20
Nos. 2000 3000 4000 O OX
Gr. $3 10 $6 75 Dz. $1 15 $2 20 $1 65
Brinkerhoff's .....per gro 14 50
Harrington..... ....per gro 4 20
Ideal—Nos. 102 101 100
Per doz..... $1 35 $2 50 $2 75
Johnson's ....per gro 7 75

IRON.

See Metals—First column.

IRONS.

Curling.
Common ....per doz 23c@48c
Princess.....per doz $0 60
Yale..... " 0 84
Oxford..... " 1 10
Ruby ..... " 1 50
Tourist, Folding ..... " 0 90
Pinking..... " 0 60
Plane.
Wood Bench.....20&5¢
Stanley R. & L. Co. (new list) 25&5¢
Sad.
Charcoal.....per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing.....per doz 7 60
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise...per set 81c
No. 55 J, " ... " 78c
No. 50 T, " ... " 84c
No. 55 T, " ... " 81c
No. 50, Howells ..... " 77c
No. 55, " ..... " 74c
Tailors' Sad .....per lb 4¼c
" Geese..... " 4¼c
Tuyere.
Single Duck Nest.....per doz $5 25
Double " " ..... " 6 25
Sutton.....each 2 60

JACKS.

Locomotive .....75&5¢
Wagon.
Meeker's .....per doz $1 25
Miller's No. 2 ..... " 7
Winner..... " 7

KETTLES.

Brass.....20¢
Caldron.....50¢
Copper.....per lb 27½c
Maslin.....65&10¢
Sugar .....50&10&5¢

KNIVES.

Best Topping.
Clyde, 9-in. Scimiter Blade.dz $4 75
" 12-in. Straight " .dz 2 50
Cooper's Hoop .....15¢
Corn.
Acorn.....per doz $2 25
Ajax..... " 2 25
Clipper, Light, $1 75; Heavy, $1 90 per doz.
Disston's.....per doz $3 15
Easy ..... " 7 75
Rugged Razor ..... " 2 40
H. S. Earle's ..... " 3 15
Drawing.
Standard.....70¢
Adjustable .....20¢
Barton's Carpenters'.....10&5¢
" Folding Handle....25&5¢
Hay.
American, Sickle Edge...doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 25
Iwan's Sickle Edge..... 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 5 75
Wadsworth's Sp'r Point. " 8 75
Hedge.
Ajax, Heavy, $5 75; Ex. Heavy, $7 75 per doz.
Mincing.
Common, Single .....per doz 48c
" Double..... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
Putty.
Common.....per doz 84c
Goodell's.....per doz $1 30@$1 80
Russell's..... " 1 75@ 2 25

KNOBS.

Base, 2¼-in. Maple, Rubber Tip,
....per gro $1 60
Door, Mineral.....per doz 0 80
Porcelain ..... " 0 90
Jet..... " 0 88
Picture.....60&10&5¢

LADDERS.

Common Long .....per ft 8½c@13c
Extension .....per ft 10½c
Step.
Common..... " 6½c
" With Shelf, add 10c.
I X L.....per ft 17c
Miller's Household. per ft 13c@15c

LANTERNS.

Bull's Eye Police.
3-in Flash Light.....per doz $6 00
2¾-in Regular..... " 4 00
3-in Regular..... " 5 00
Tubular, Berger.....40&10&5¢

LEADERS—CATTLE.

Nos. 1 2 3
Per doz... $0 70 $0 85 $3 75

LEATHER—LACE.

Cut .....50&10¢
Sides, Ex. Quality.....per sq ft 20c

LEATHERS—PUMP.

Valve and Plunger.....50¢

LIFTERS.

Stove Cover.
Japanned.....per gro $9 75
Coppered..... " 3 60
Chilkoot..... " 4 25
Devore's..... " 5 50
Zero ..... " 3 90
Transom, Payson's.....70&10¢

LINES.

Chalk, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 32c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz..... 34c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz..... ..... 23c 26c 32c
Masons', in 100-ft hanks...doz $1 60
Clothes.
60-ft Jute .....per doz $0 95
72-ft " ..... " 1 10
60-ft Sisal ..... " 1 60
72-ft " ..... " 2 10
60-ft Cotton..... " 1 35
50-ft Braided Cotton.....95¢

LINING—STOVE.

In Bricks.....per crate 43c

MACHINES.

Boring	Without Augers.	With Augers.
Ajax .....per doz	$6 25	$6 75
Angular... "	3 25	5 00
Boss ..... "	4 50	5
Upright... "	3 20	4

Leather Riveting.
Chicago, Pomeroy ....per doz $9 75
Excelsior..... " 2 50
Handy..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy..... " 8 00
Washing.
Boss. 1 2 5 3
Per doz.. $57 00 $63 00 $69 00 $80 00
Globe, No. 1.....per doz $51 00
O K Rotary ..... " 58 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00

MALLETS.

Carpenters'.
Fibre Head, Small. Med. Large.
Per doz..... $5 00 $5 75 $6 75
Round Hickory.....per doz $1 75
" Lignumvitæ.... " 2 75
Square Hickory..... " 1 75
" Lignumvitæ .. " 3 25
Tinners'.
Applewood ..... " 1 65
Hickory..... " 80
Hickory Sheet Iron. " 85

MATS.
Door.
National Rigid ....60&5%
Queen Flexible 50%
Wire.
Standrd Quality ....per gross $3 75
Best " (Pure) " 4 75
Wire Covered Asbestos, Ex. Heavy ....per doz 1 00

MATTOCKS.
Ajax ....50&10%
Extra ....60&5%

MAULS.
Iron, lbs. 10 13 16 18 21
Per doz. $3 40 $4 20 $5 00 5 50 $6 00
Wood face, lbs. 10 11 12
Per doz $4 75 $5 00 $5 25
Wood Choppers'.
Lake Super'r & Oregon Pat. 70&10%

MEASURES.
½ pk 1 pk ½ bu
Galvanized..per dz $3 75
Japanned.... " $1 50 2 25 $2 90
Iron Bound. " 1 40 1 70 2 00

METAL.
Babbitt.
Alm ....per lb 8½c
Best .... " 23c
Common, No. 4 .... " 6½c
Copper Mixed .... " 18½c
Magnolia Metal .... " 19c
Tony .... " 10½c
See Metals—In first column.

MICA.
First Quality ....40, 10&5%
Second Quality 60%

MILLS—COFFEE.
Enterprise ....25&5%
National 30%
Parker ....50&10%@60%

MOPS.
Eris ....per doz $3 15
Handled Cotton.
Lbs. ¾ 1 1¼ 2
Per doz.. $1 85 $2 20 $2 50 $3 15

MOWERS—LAWN.
Ball-Bearing.
In. 15 17 19 21
Each $7 50 $8 50 $9 50 $10 50
Champion.
In. 12 14 16 18 20
Ea.. $2 30 $2 35 $2 35 $2 65 $2 75
Champion, High Chief.
In. 16 18 20
Each $4 00 $4 50 $5 00
Cheap Grades.
In. 12 14 16 18
Each $2 10 $2 10 $2 10 $2 20
Clipper ....50&10&10%
Girard, in. 14 16
Each $3 75 $4 00
Philadelphia.
All Styles Except A & E 60&10&10%
Style A ....50&10%
Style E, High Wheel..60,10,10&10%
Drevels 50%
All Day ....Net Price

MUZZLES.
Horse.
Nos. 1 2 3 4 5
Doz. $0 30 $0 50 $0 55 $0 70 $1 00

NAILS.
Horse Shoe.
Ausable 50%
Capewell 10%
Perfect ....40&5&
Putnam 33⅓%
Star 35%
Picture.
Brass Head ....40&10%
Judd's ....40&10%
Brads ....80&10&10%
Wire Nails—Small lots $2.30
Car load lots 2.20

NETTING—POULTRY.
Galvanized Before Weaving .80&20
" After Weaving...80&15
Cut Pieces ....65&5%

NIPPERS.
End Cutting.
P. S. & W. Co. ....40&5%
Stubb's Pattern ....40&10&5%
Hoof.
Heller's ....40&5%
P. S. & W. Co. ....40&10%
V. & B 40-5%

NOZZLES.
Hose.
Genuine Boston ....per doz $3 40
Genuine Gem .... " 3 60
Magic .... " 3 60

NUTS—HOT PRESSED.
Square Blank.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ 1
Lb. 7½c 5¼c 4¾c 4⅝c 4½c 4¼c 4¼c
Square Tapped.
In. ¼ 5-16 ⅜ ½ ⅝
Lb. 14c 9½c 7¼c 6½c 6¼c

OILS.
Linseed, Pure boiled ....per gal 37c
" " raw .... " 36c

OILERS.
Chase Pattern.
Brass and Copper 35%
Zinc 60%
Engineers'.
Cannon 50%
Tin ....per doz $2 75@$3 25
Machine.
Ajax ....per doz $0 80
Copper Plated Steel... " 1 50
Malleable Iron ....40&10&5%
Tin ....per doz 55c@65c

OPENERS.
Box, in. 10 12 14
Flat ...per doz $2 85 $3 60 $4 15
Round.. " 3 10 3 25 3 [illegible]
Can.
American ....per doz $0 26
Delmonico .... " 1 35
Never Slip .... " 0 45
Perfect .... " 58

Tip Top .... " 0 84
Crate, V. & B .... " 5 75

OUTFITS—COBBLING.
Combination ....per doz $11 50
Economical .... " 4 90
Family .... " 10 00

PADLOCKS.
Standard Wrought ....70&10&5%
Champion 50%
Eureka ....40&10&5%
Yale ....60&5%

PAILS.
Cream.
14-qt., Without Ga....per doz $2 75
20-qt., " " .... " 3 25
20-qt., With Gauge.... " 4 20
Sap, 10-qt., Galvanized, $1 60; 12-qt., Galvanized, $1 85 per doz.
Stock, Galvanized.
Quarts 14 16 18 20
Per doz... $3 75 $4 00 $4 65 $5 25
Water, Galvd, qts. 10 12 14
Per doz $1 75 $2 00 $2 35
Wood.
Cable, 2-Hoop, $1 70; 3-Hoop, $1 90 per doz.
Cedar, 3-Hoop, $2 50 per doz.
Standard, 2-Hoop, $1 55; 3-Hoop, $1 75 per doz.

PANS.
Dripping ....50&10&5%
Fry, Common ....60&10&5%
Acme ....66⅔&5%
Roasting.
Brownie ....Each 30c@37c
L. & H .... " 58c@80c

PAPER.
Building.
Plain ....per 100 lbs $1 15
Tarred .... " 1 25
Tarred Felt .... " 1 80
Diamond A, Red Rosin.pr roll 0 63
Leader, Red Rosin .... " 0 48
Sand and Emery.
Ajax ....50&10%
B. & A ....50 & 5%
Wrapping.
Grecian Express ....per lb 3½c
Rag .... " 2½c

PARERS.
Apple.
Bay State ....per doz $13 00
Reading .... " 6 75
Turntable .... " 6 00
White Mountain .... " 5 25
Potato.
Goodsell's Saratoga..per doz. $6 50
White Mountain .... " 6 00

PICKS
Adze Eye Ore ....60&5%
Drifting and Poll Picks ....60&10%
Ajax Railroad ....50&5%
Extra Railroad ....60&10%
Surface ....60&10%

PINCHERS.
Carpenters', wrt. iron, pol. steel jaws 30%
Blacksmiths' 50%
P. S. & W ....40&10&5%

PINS.
Clothes.
Common ....per gr..$0 12
Hoyt's .... " .. 30
U. S .... " .. 70
Picket.
Fluted ....per doz..$0 90
Round .... " .. 1 75
Spiral .... " .. 1 90

PIPE.
Conductor. Nested — Not nested
Eastern ....70&12½% — 70&7½%
Central ....70&7½% — 70%
Southwst'n.. 65-&7½% — 65&2½%
Mo. River....70&7½% — 70%
Southern ....65&10% — 65&5%
Lead.
Full coils ....per lb..$0 6¼
Cut " .... " .. 6½
Stove.
Acme—In. 5 6 7
Smooth, per jt. 10½c 10½c 12½c
Planished, " ..32c 33c 43 c
Peerless--Smooth..8½c 9c 11½c
Polished. 16c 18c 22 c
Planished 28c 31c 40 c
Made-up—In. 5 6 7
Smooth .... 8½c 9c 12 c
7 to 6 in. Smooth Tapers, pr jt..14c
6 in. Smooth T's .... " ..30c
7 to 6 in. Planished Tapers 45c
Wrought Iron Gas Pipe.
¼-in., black ....discount, 60%
⅜ " .... " 63%
½-in. to 4-in., black .... " 69%
4½ " 6 " .... " 66%
7 " 12 " .... " 64%
¼ " galvanized " 48%
⅜ " " " 50%
½ " to 4 " " 56%
4½ " " 6 " " 52½%
7 " " 12 " " 50%

PLANES.
Ohio ....60&5%
Stanley Planes, new list..30%@30&5%
Bailey Planes 35%
Sandusky 30%

PLANTERS.
Corn,
Monitor ....per doz..$7 75
Triumph .... " .. 6 00
Potato
Acme ....per doz.. $6 25
Challenge .... " .. 10 75
Fencing.
Cronk's ....per doz..$9 25
Farmers' Choice .... " .. 8 75
Russell's .... " .. 8 65
Flat and Round Nose.
Bernard's 30%
German 50%
Lodi 40%
Paragon ....40&10%
P. S. & W. Co. 60%
Gas—In. 8 10 12
Per doz $3.10 $4.00 $4.90

PLUMBS AND LEVELS.
Common ....75%@75&10%
Cook's 40%
Davis' Iron 30%
Davis' Inclinometer 20%
Stanley's
Nos. 00S 0S 2S 3S
Per doz..$4.50 $5.20 $7.00 $8.65
Nos. 30 25 50 35
Per doz.$13,00 $17.50 $17.50 $12.35

POINTS. Discount
Drive Well Points ....80&10&5%

POKERS--STOVE.
Wr't Iron, str't or bent, per doz.$0 50
Wr't Iron, wood hand'ls " 75
Nickel pl'td. coil hdl's.. " 70

POKES--ANIMAL.
American ....per doz $2 60
Brown's, wr't steel " ..$5 25@6 25
Eagle .... " $4 25
Success .... " 2 60

POLES--FISHING.
Bamboo
Ft. 12 14 16 18 20
Pr 100..$2.75 $3.40 $4.75 $6.00 $7.75

POLISH.
Metal.
Pride of the Bar.... " .. 1 60
Putz Cream.
Pts. 1-6 ¼ ½
Per doz $0.84 $1.25 $1.80
Pts. 1 2 4 8
Per doz.$3.60 $6.00 $9.00 $18.00
White Silk, half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine
Pts. 1-6 ½ 1 2
Per doz...$0.68 $1.30 $2.15 $3.00
Shoe.
M. D. C ....per doz..36c@50c
F. C. O .... " 40c
T. M .... " 50c@$1 25
Imperial ....per gr $5 00
Stove.
Black Eagle, 1 lb cans, pr gr..$15 00
Black Silk—
5 lb. pail 70c
Paste, 5 oz. cans per doz....$1.00
Paste, ½ lb cans, per doz... 1.00
Black and Japanned—
Liquid, ½ pint cans per doz. 1.00
Liquid, 6 oz. cans per doz.... 75c
Steel Range Gloss per doz... 1.75
Blackene, 1 lb cans....pr gr.. 13 00
Black Jack, ¼ lb cans. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Nickel Plate .... " .. 4 50

POPPERS, CORN.
Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt ....per doz., $1 00
Square, 2 qt ....per doz., 1 25
1 qt. reversible ....per doz., 1 50

POTS—FIRE.
Bernz ....each..$3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City ....each.. 6 25
Gem .... " .. 6 75

POWDER.
See Ammunition.

PRESSES—FRUIT AND JELLY.
Enterprise Manufacturing Co... 25%
Henis ....per doz. $2 10

PRUNERS.
Disston's Pole ....per doz..$7 50
Henry's Improved..per doz..65&10%
Water's Improved. " 70, 10&5%

PULLERS.
Cork.
Modern ....each..$2 60
Quick and Easy .... " .. 2 90
Nail.
Giant ....per doz..$9 00@10 50
Giant Pattern. " .. 6 00
Tack--Giant .... " .. 60

PULLEYS.
Awning--Jap'd ....40&5% to 35&5%
Clothes Line ....20&10%
Hay Fork.
Iron Wheel, 5 in ....per doz..$1 70
Wood Wheel, 6 in .... " .. 1 60
Wood Wheel, 6 in... pass knot .... " .. 1 75
Hot House--Jap'd ....30&5%
Screw .... " ....30&5%
Side .... " ....30&5%
Sash.
Chicago ....per doz..$0 29
Clark's .... " .. 43
Common Sense, 2 in.. " .. 27
" Pattern, 2 in.. " .. 22
Empire .... " .. 24
Ideal .... " .. 24
Grand Rapids, No. 17 " .. 24
" " No 11 " .. 25

PUMPS
Pitcher Spout.
Nos. 1 2 3 4
Each $0.95 $1.05 $1.15 $1.40
Spray.
Blizzard ....per doz..$14 25
Cyclone, tin .... " .. 3 90
" copper .... " .. 6 75
Daisy .... " .. 8 75
Little Giant ....each.. 2 40

PUNCHES.
Conductors', No. 22....per doz..$2 50
Machine ....per lb . 19
Saddlers'.
Common ....per doz..60c@70c
Good .... " ..72c@84c
Spring.
1 Tube ....per doz. $3 25

PLATES--TIN.
See Metals in Column 1.

PLIERS.
Button's--In. 4½ 6 8 10
Per doz $2.60 $3.10 $3.90 $5.20
Button's Pattern.
In. 4½ 6 8 10
Per doz $2.35 $2.50 $3.45 $4.40
Cutting.
Cronk's Comb ....per doz..$6 25
Bernard's 30%
Lodi ....40&10&5%
Stubb's 50%
4 Tube, revolving.... " .. 5 25
Tinners'.
Hollow 40%
Solid ....each..5½c

PUTTY.
In Bladders.
Strictly pure ....per 100 lbs. $2 35
Commercial .... " " 2 10

RAIL.
Barn Door.
Light Wrought ....per ft. 3c
Safety .... " 4½c
Single Flange .... " 1⅛c
Smith's Wro't Bracket—plain 3½c
Smith's Special 4½c
Smith's "Never Jump" 11c 50%
Smith's Plain Steel 30%
Smith's Milled Steel 4½c
Sliding Door.
Painted iron ....per ft. 4½c
Bronzed wr't iron .... " 8½c

RAKES.
Coal or Road ....per doz. $5.25
Garden.
Steel, braced 70%
Steel, bow ....70,5,10&5%
Malleable iron, heavy ....70&10%
Hay—Wood ....per doz. $1 05@1 70
Lawn—Wood.
Common ....per doz. $2
Automatic .... " 6 00
New Lawn Queen .... " 3 60
Jumbo, 36 teeth .... " 5 75

RASPS—See Files.

REGISTERS.
List July 1. 1903
Black and White Japanned..75&10%
Nickel Plated ....75&10%
Electroplated, Brass, Bronze or Copper ....75&10%

RINGS
and Ringers—Hog.
Blair's Rings ....per doz. 60c
Blair's Ringers .... " 84c
Brown's Rings .... " 65c
Brown's Ringers .... " 90c
Champion Rings .... " $2 25
Champion Ringers .... " 1 70
Hill's Rings .... " 48c
Hill's Ringers .... " 70c@95c
Mazor Rings .... " 80c
Mazor Ringers .... " $1 15
Perfect Rings .... " 84c
Perfect Ringers .... " $1 05
Wolverine Rings .... " 1 50
Wolverine Ringers .... " 70c
Bull.
Copper, 2½-in. 3-in.
per doz $1 35 $1 70
Steel ....per doz. 95 1 05
Steel, Nickel Pl't'd. 2½-in., doz. 1 35
Rea's Self Piercing $1.95
Fruit Jar—White ....per lb. 30c
Key.
Split, round ....per doz. 1
Split, square .... " 32c
Ball, round .... " 32c

RIVETS.
and Burrs.
Copper Belt ....50&10&5%
Coppered Iron 75%
Tinners' ....66⅔@60%
Hame ....per lb.
Slotted Clinch ....per doz. 70c@75c
Tubular—Nos. 1 and 2, assorted sizes ....per doz. 60c

ROPE.
Per lb.
Manila, 7-16 inch diameter and larger 11½c
Sisal, 7-16 in. and larger 9½c
Cotton.
¼ and 5-16-in. on reels...per lb. 12c
¼ and 5-16-in. in coils... " 13½

RULES.
Boxwood 60%
Ivory ....35&5%

SASH WEIGHTS.
Per ton, f.o.b. Chicago $30.00

SAWS.
Back.
Disston's ....25&7½%
Jackson's ....25&7½%
Butchers'—Disston's ....25&7½%
Circular.
Disston's 50%
Hiles' 50%
Compass.
Common ....per doz. $1 35@1 60
Disston's ....25&7½%
Cross-Cut.
Atkin's 40%
Disston's ....40&10% &50%
Pocahontas Bit ....per ft. 39c
Pocahontas, Blued .... " 41c
Dehorning.
Atkins' ....per doz. $5 50
Disston's .... " 5 75
Hack.
Disston's 25⅓%
Keystone 33⅓%
Sterling Hack Saw Blades 25%
Sterling Hack Saw Frames 20%

SAWS—CONTINUED.

Hand and Rip.
Brown's .....30&7½%
Disston's No. 7 .....30&7½%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 .....25&7½%
Gorham's Comb .....30&7½%
Keystone .....30&7½%
Sam Sickles', hand...per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
"U. S. A." hand ..... " 12 25
"U. S. A." rip ..... " 14 25

Keyhole—Disston's .....25&7½%

Kitchen.
Sterling 25%

One Man 50%

Panel.
Brown's .....30&7½%
Disston's No. 7 .....30&7½%
Disston's Nos. D8 and 12, D100 and 112 .....25&7½%
"I Will" 40%
"U. S. A." .....40&10&5%

Pruning.
Avery's Duplex .....25&7½%
Brown's .....25&7½%
Disston's .....25&7½%

Wood.
Common .....per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever .....per doz. $ 1.20
Stillman's Lever .....per doz. 1.30
Leach's .....per doz. 5.00
Nash's .....per doz. 4.20
Monarch .....per doz. 6.50
Aikin's Pattern .....per doz. 3.50

FRAMES—SAW.

Common, plain .....per doz. $1 20
" painted ..... " 1 60

Counter. SCALES.

Fairbank's Standard .....30, 10&5%
Hatch's .....per doz. $21 50
Little Detective, 1 2 3
Each $2 00 2 25 2 10
No. 1 Tea .....per doz. 7 75
Union Platform .....each 2 35
Pelouze 25%
Turnbull's Market 50%

Platform.
Common, 600 800 1000
Each $6 75 9 75 10 75
Chicago Standard .....30 to 33⅓%
Fairbank's Standard 40%
Osgood 50%

SCOOPS.

Ames .....10&10%

Eastern Pattern. Socket Strap.
Nos. 2 3 4 5 6
Per doz. $7.00 7.25 7.50 7.75 8.00
Nos. 7 8 9 10 12
Per doz. $8.25 8.50 8.75 9.00 9.50

Western Pattern. Socket Strap.
Nos. 1 2 3 4 5
Per doz. $7.00 7.25 7.50 7.75 8.00

Ajax. *Eastern Pattern,*
Nos. 2 3 4 5
Per doz. $5.25 5.50 5.75 6.00
Nos. 6 7 8 9
Per doz. $6.25 6.50 6.75 7.00

Ajax. *Eastern Pattern,* extra heavy,
Nos. 3 5 6 7
Per doz. $7.25 7.75 8.00 8.25

Ajax. *Western Pattern,*
Nos. 4 5 6 7
Per doz. $5.75 6.00 6.25 6.50
Nos. 8 9 10 12
Per doz. $6.75 7.00 7.25 7.75

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 10

Cabinet.
Ajax .....per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80 ..... " $6 40

Road.
Cubic ft. 7 5 3
Without runners, ea. $5.00 4.75 4.50
With runners .... " 5.25 5.00 4.75

SCREWS.

Bench.
Iron 30%
Wood, white maple..per doz..$3 60

Hand—Wood 20%

Hand Rail .....70&10%

Jack .....75&5%

Lag or Coach. Gimlet Point...75 5%

Screw—Centennial.
Nos. 1 2 3 4
Per doz. 22c 25c 32c 36c

Wood.
F. H. Bright Steel .....87½&10%
R. H. Blued Steel .....85&5%
F. H. Jap'd Steel .....82½&5%
F. H. Brass .....85&5%
R. H. Brass .....80&5%
R. H. Nickel Plated 75%

SCYTHES.

Clipper, grain .....per doz..$9 25
Dutchman, grass ..... " 6 00
Golden Clipper, grass. " 5 50
U. S. A., grass ..... " 7 00

SETS.

Nail.
Round, common .....per doz..$0 33
Square " ..... " 42
Octagon " ..... " 33
Square, Buck Bros.. " 1 25
Cup Point, knurled, pr doz. 70c@90c

Rivet.
Farmers' .....per doz..$1 45
Tinners' .....50&10%

Saw.
Aiken's Pattern .....per doz..$3 50
Common Lever ..... " 1 20
Disston's Monarch ... " 6 50
" X Cut ..... " 11 75
German ..... " 1 35
Morrill's Old Style... " 5 40
" Pattern ..... " 4 50
Leach's ..... " 4 80
Nash's Hand ..... " 4 00
" X Cut ..... " 5 50
Stillman's Lever ..... " 1 30
" X Cut ..... " 2 50

SHARPENERS—SKATE.

Diamond ..... per doz..$1 60

SHAVES—SPOKE.

Iron .....per doz..$1 35@$2 75
Wood ..... " 2 75@ 4 75
Bailey's .....50&5%
Goodell's 15%
Stanley's Universal .....30&5%

Pruning. SHEARS.

Buckeye, No. 1 .....per doz..$6 50
" No. 2 ..... " 8 50
California Pat., 9 in.. " 4 25
" 10 in.. " 5 00
Draw Cut, No. 3 ..... " 15 50
" No. 4 ..... " 18 50
Henry's Pat. 0 01 14 012
Per doz...$1.90 $2.50 $3.15 $3.50
Star .....per doz..$4 75

Sheep—No. BBA.
6 in. 6½ in. 7 in.
Reg. Grip..$11.00 $11.35 $12.00 doz.
Nar. Grip.. 11.20 11.00 12.15

Tinners'—See Snips.

SHEAVES—SLIDING DOOR.

In. 3 4 5
Common..Per set...$0.42 $0.48 $0.70
Hatfield's. " .. .75 1.00 1.60

SHELLERS—CORN.

Union .....per doz..$7 25

SHOT—See Ammunition.

SHOVELS AND SPADES.

Drain.
Iwan's Perfection 50%

Railroad, Etc.
Gold Hibbard's .....per doz.. $9 25
C. H. Conovers's .... " .. 7 75
Beckwith's ..... " .. 7 75
Hickory ..... " .. 6 25
Greenleaf's ..... " .. 5 75
Columbus ..... " .. 5 00
Ames' new list .....Discount 12½%

Coal.
No. 2 Ajax .....per doz..$5 25
No. 4 Golds ..... " .. 6 25
Ames' new list.....Discount 12½%

SIEVES.

Champion .....per doz. $ .90
Hunter's Genuine ..... " 1.10
" Imitation ..... " .90
Tin Rim, 16 mesh plain wire" 1.35
Wood " 16 mesh plain wire" .80

SINKS.

Cast Iron.
Painted 50%
Enameled, White ....60&10%

Wrought Steel.
Painted, new list .....40-10&5%

SLEDGES—See Hammers.

SNAPS—HARNESS.

Champion 65%
German Pattern .....30&5%
Judd's Pattern .....60&10%@70%

SNATHS.

Double Ring, Bush .....per doz..$6 50
Patent Loop " .... " .. 7 00
" " Brass.... " .. 6 25

SNIPS—TINNERS'.

Hernisch's .....40&5%
National .....40&5%
P. S. & W. Co.'s .....25&5%

SOLDER.
See Metals, Column 1

SPRINGS—DOOR.

Perfect. Nos. 1 2 3 4
Per doz..... 32c 38c 45c 48c
Reliance, Light $1.40, Heavy $2.20 doz.
Star .... " .90, " 1.20 "
Torrey's .....per doz..$1 35
Warner's— No. 1 No. 2
Per doz..... 72c $1 45

SQUARES

Steel and Iron 70%
(Add for Bluing, $2.50 per doz., net.)
Mitre—Stanley's No. 12 .....40%

Try.
Stanley's No. 20, new list...30&10%
" Nos. 12 and 14 .....40%

Try and Bevel—Stanley's .....40&5%

Try and Miter.
Fox's .....per doz..$7 25
Winterbottom's 50%

SQUEEZERS—LEMON.

Common Wood .....per doz..$0 72
Porcelain Lined, wood. " .. 1 20
Boss, tinned iron ..... " .. 84
Pearl, nickel plated... " .. 1 30
Star " " ..... " .. 1 60
Little Giant, tin'd iron " .. 4 25
King ..... " .. 2 50
Drum ..... " .. 4 50

STAPLES.

Blind—Barbed .....per lb. 9¼@10c
Butter Tub ..... " 8@8½c
Fence, less than carload.
Polished .....per 100 lb. $2 40
Galvanized ..... " 2 80
Netting—Galvanized .....per keg 3 60

Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples ..... 65-10&5%
Extra heavy .....75&10%

STEELYARDS.
Discount 25%

STONES.

Axe.
Hindostan .....per lb. 5½@7c
More Grit ..... " 9½c
Washita ..... " 16½c

Emery .....60%@60&5%

Oil—Unmounted.
Arkansas Hard .....per lb. $2 00
Arkansas Soft ..... " 1 15
Hindostan ..... " 6¼@6¾
Lily White ..... per lb 43c
Queer Creek ..... " 14½c
Ouachita ..... " 36c
Washita ..... " 25c

Sythe.
Black Diamond .....per gro. $7 75
Clear Grit ..... " 4 25
Gem Corundum ..... " 7 50
Green Mountain ..... " 4 20
La Moille ..... " 7 00
Pikes Gen. No. 1, Ind. Pond., per gro 4 75
White Mountain .....per gro. 6 50
Willoughby Lake .... " 6 25
Red End ..... " 3 15

STOPS—BENCH.

Hotchkiss' .....per doz. $3 60

STOPPERS—FLUE.

Common .....per doz. 42c
Crown ..... " 48c
Gem, flat, painted ..... " 72c
Gem, cor'd, decorated .... " 68c
Kirch's ..... " $1 20
Peerless ..... " 72c
Skinner's Common Sense " 95c

STRAPS.

Scoop .....per doz. prs. $1 80
Skate ..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's .....per doz. $3 90
Excelsior ..... " 5 50
Malleable Iron ..... " 70
Perfection ..... " 6 00
King ..... " 4 50

Wire.
N. S. Elwood's .....per doz. $5 75
O. S. Elwood's ..... " 5 75
Little Giant ..... " 5 50
Star Lever ..... " 6 25
Star Tackle Block .... " 9 25
Warner's ..... " 6 25

SWIVELS.

Malleable Iron .....per lb. 6½c
Wrought Steel .....per gro. $4 50

TACKS.

American Cut .....90&5%
American Wire .....85&25&10%
Bill Posters Cut ....90&40%
Blued Carpet .....90&15%
Tinned Carpet .....90&15%
Gimp .....90&30&10%
Upholsters' Cut .....90&40&5%
Upholsters' Wire .....90&25%
Double Pointed .....90&20%
Copper .....per lb. 27c
Canvas Nails .....75&5%
Clout Nails .....75&10&5%
Hungarian Nails .....80&5%

TAPES—MEASURING.

Asses' Skin .....40&10%
Bend Leather 25%
Patent Leather 25%
Lufkin's Steel 30%
Lufkins Metallic 30%

TENTS AND PAULINS.

Wall Tents 50%
Wedge Tents .....50&5%
Paulins 45%
Wagon Covers 45%

THERMOMETERS.

Tin Case .....per doz., 95c@$1 25
Wood Back ..... " $1 75@ 9 00
Glass ..... " 15 50

TIES.

Bale.
Single Loop ..... 80&10%
All other kinds 70%

Cow—See "Chains."

TONGS.

Crimping—Packham's...per pair 50c
Gutter—P. S. & W. Co.'s .....15&10%
Pipe—Brown's 50%
Roofing—P. S. & W. Co.'s ....15&10%

TOOLS—SAW.

Atkin's Dexter .....per doz. $4 25
Atkin's Excelsior ..... " 6 25
Disston's Universal 40%
McDonald's 33⅓%

TRAPS.

Game.
Newhouse 50%
New Victor 80%

Mole—Reddicks .....per doz. $5 75

Mouse and Rat.
Wood Choker .....per hole 10c
Tin Choker ..... " 11c
Delusion .....per doz. 85c
Imitation Sight, Rat .. " 80c
Marty Rat ..... " $6 75
Marty Rat, Imitation.. " 2 75
Marty Mouse ..... " 3 15
Marty Mouse, Imitation " 2 10
French Automatic ..... each $3 60

Fly.
Balloon .....per doz. $1 10
Harper's ..... " 1 25

TROUGH—EAVE.

Eastern ..... .Discount 75&16⅔%
Central .... " 75&12½%
South Western .... " 75%
Missouri River .... " 75&12½%
Southern ..... " 75&12½%

TROWELS.

Brick.
Standard 30%
Brade's .....10&7½%
Disston's 30%
Rose's 25%

Plasterers'.
Standard 33⅓%
Disston's 30%
W. & McP 25%

TRUCKS.

Bags .....each $1 70
Handy ..... " 1 50
Warehouse .....60&5%

No. 1 2 3
Half Ironed $2.60 $3.40 $5.00
Full Ironed 3.90 5.75 6.75

TUBS-WASH.

Ex.
No. 3 2 1 large
Standard, per doz. $5.25 6.25 7.25 9.75
Dowel .... " 5.60 6.60 7.50 10.00
Cedar .... " 6.50 7.50 8.25
Indurated. " 7.20 7.95 9.45 11.70
Galvanized.
No. 1 2 3
Per doz $5.50 6.00 6.75

VISES.

Bonney's 30%
Cheney's 20%
Parker's Oval Slide .....50@50&10%
Parker's Parallel .....15@20%
Parker's Victor 10%
Parker's Combination .....50&10%
Solid Box .....50&5%
Adam's Mechanics' .....each $3 50

WARE,

Cast-Iron Hollow.
Ground ..... 40, 10&2½%
Unground ..... 50, 10&2½%
Extra Finished 40%
White Enameled .....40&5%
Maslin Kettles 65%

Enameled.
Adamant, one coat, 70&10%@75&10%
The manufacturers divide this ware into two classes, which take different discounts, noted above.
Chrysolite, three coat .....40&5%

WASHERS.

Leather. In. ⅜ 1 1⅛ 1¼ 1½
Nut, per C....16c 17c 19c 25c 23c
Collar, per C...35c 40c 40c 43c

Wrought Iron.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb...9c 8c 6¾c 5¼c 5c 4¾c

Wrought Steel.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb .10c 9c 7¾c 6¼c 6c 5¾c

WEDGES.

Ax .....per doz.....30c
Galling .....per lb..10¼c
Saw ..... " .. 6¾c

Wood Choppers.
Lake Superior and Oregon, Pat .....per lb.. 9¼c
Reg. Pattern, Steel... " .. 4 c
Truckee " " ... " .. 4¼c

WEIGHTS.

Hitching .....per lb..2½c
Sash—F.O.B. Chicago..pr ton..$27.00

WHEEL BARROWS.

Common Railroad....per doz..$16 00
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray.. " .. 26 50
No. 04 Steel Dirt ... " .. 52 00
No. 04½ " " ... " .. 56 00

WHEELS.

Corundum .....70&10&5
Emery .....75&5%
Well. In. 8 10 12 14
Per doz.... $1.90 $2.20 $3.00 $5.50

WIRE.

Barbed. Painted. Galv'd.
Carloads...pr 100 lbs..$2.50 $2.80
Less than car " .. 2.60 2.90

Brass.
In coils 20%
In 1 lb. spools, new list.....50&10%

Broom—Tinned .....60&10&10&10%

Cable—Same price as Barbed Wire.

Copper.
In coils .....20&10&33⅓%
In 1 lb. spools, new list.....50&10%

Fence—Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.10
Nos. 6 to 9, Galv'd... " 2.20

Hair—New list .....50&10%

Market.
Bright, full bdles .....70&10%
Bright, broken bdles 70%
Coppered, full bdles 70%
Coppered, broken bdles ....65&10%
Tinned, full bdles ....70&5%
Tinned, broken bdles .....65&10%

Picture.
In coils .....80%@80&10%
In 5 lb. spools .....per lb..26c

Plain—Small lots $2.00
Car lots 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard 60%
Alligator .....65&5%
Always Ready .....40&10&5%
Bemis & Call 40%
Coe's Standard .....40&10%
Girard's Agricultural 75%
P. S. & W. Co.'s Agricultural....75%
" " " Knife H'dle..50&5%
Wescott's "S" 33⅓%
Malleable .....per lb..6¼c
Stillson Pipe .....60&5%
Trimo " 60%

WRINGERS.

Clothes.
Nos. 22&110, Guarantee, pr doz. $26 00
No. 150, Sunshine ..... " 18 00
No. 130, Mendota ..... " 18 00
No. 12, Success ..... " 16 00
Blue Bell, Ball Bear'g. " 25 00
No. D 110, Domestic... " 22 50
No. E 800, Empress ... " 25 50
No. 122, Bicycle Ball-bearing ..... " 27 00
No. 122, Swan ..... " 27 00

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—A good, clean stock of hardware with tin shop in connection, in a prosperous town and splendid farming community in northern Illinois. Stock and tools will invoice about $2,500. Address D. H. R., care The American Artisan, 69 Dearborn street, Chicago. 17

For Sale—A money-making hardware, buggy, harness and implement business, located in county seat of finest county in western Indiana. Doing large business. Good reason for selling. Stock, $7,000; can be reduced in short time. Don't answer unless you mean business. Address "Indiana," care The American Artisan, 69 Dearborn street, Chicago. 17

Partner Wanted—An established job work and furnace company in one of the best cities in Colorado incorporated for $5,000.00, desires to associate with an energetic up-to-date mechanic or business man. An investment of $1,000.00 required. Address, Colorado, Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

For Sale—One-half interest in a hardware store; good town in northern Colorado; population, 9,000; reason for selling. Address "Last Chance," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

For Sale—A long established agricultural implement, wagon and carriage business, situated on good corner facing public square in Huntley, Ill. Fine large building, in good repair, and a good stock of goods including wagon repair outfit. Will sell for cash or give credit on part of purchase price. Address A. M. Disbrow, Huntley, Ill. 16

For Sale—A good clean stock of hardware with well paying tin shop in a lively business town in northern Illinois. Stock and tools with invoice about $2,400. Address H. B., care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

Wanted—To rent by a first-class tinner, plumber, heating engineer, good tin shop either alone or in connection with a good hardware store, central Illinois prefered. Please give full particulars. Address "Expert," care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

For Sale—Stock of hardware in town of 10,000, county seat, in northern Illinois. Reason for selling, old age. Will sell stock and building together or separate. Splendid business opening for right party. Address "Old Man," care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

Wanted—Good stock of hardware in exchange for an improved Iowa farm at a bargain; no trade stock or traders' letters considered. Want good location and business. Give description and size in first letter. Address "A. B. C.," care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

For Sale or Exchange—For a medium-sized stock of hardware, a well improved 400-acre farm in east central part of Iowa, one mile from town of 6,000; 180 acres under cultivation, balance pasture with good water. Large house and farm buildings. Price reasonable. Address Box 111, Olin, Iowa. 15

For Sale—For cash, stock of hardware in county seat town, northern Minnesota, over 2,000 population, one other hardware. Invoice, $7,000; could be reduced if necessary. Good opportunity to get established business in growing country. Address "Stock," care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

For Sale—Stock of hardware of $2,000. Established in 1875 in the best farming and dairy country in Northern Illinois. The stock may be increased and there can be harness or implements added to stock or furniture. I have good building, best location in town, and rent reasonable. Address "O. K.," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 15

For Sale—A stock of hardware, plumbing and furnace business, $9,000. Stock situated in northeastern Iowa, town of 3,000. Only two stocks in town. "Plumbing," care of The American Artisan, 69 Dearborn, Chicago, Ill. 14

For Sale—A clean stock of stoves and hardware in a town of 1,200 population in eastern Illinois. The best of furrowing lands in the state. Failing health compels owner to quit business. Store building also for sale. Good and satisfactory terms will be given. For further information address "Sowers," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 14

For Sale—Clean stock hardware, stoves, tinware and jewelry; shop in connection; located in the best farming district in the state; invoice about $10,000; town about 3,000 inhabitants; only one other hardware; doing good business, but wish to retire from the hardware business; good chance to step into a good business; will sell for cash only. Ullery & Jones, Gibson City, Ill. 14

For Sale—A fine, clean stock of hardware, stoves and tinware of about $6,000 in best town of over 5,000 people in Iowa. Good business; fine cash trade. Address, Owners, Care of American Artisan, 69 Dearborn St., Chicago, Ill. 13

TINNERS' TOOLS.

Wanted—One 30-inch square shear, 1 crimping machine, 1 grooving machine, 1 30-inch sheet iron folder, 1 4-foot mandrel, 1 set 30-inch rolls for forming stove pipe, rivet set and hand groover, 1 pair circular snips and 1 good vise. Must be up-to-date encased machines and cheap. Address G. Underwood, Terre Haute, Ind. 17-1

For Sale—Complete set of tinner's tools; or will rent tools and shop. Good opening for tinner that understands plumbing and steam fitting. Address Lock Box 22, Elkader, Iowa. 16

Wanted—A second hand set of tinners' tools and machines. Must be in good condition; cheap for cash. Please give list and best price f. o. b. your station. Address "M.," care The American Artisan, 69 Dearborn st., Chicago, Ill. 15

Wanted—1 30-in roller with 2-in. rolls; 1 stovepipe crimper and beader, 1 pair Reese's roofing tongs, 1 pair gutter tongs; 1 pair 9-in. bench shears. Write, stating condition and best cash price. E. A. Stephenson Hdw. Co., Lowell, Iowa. 15

Wanted—A good, second-hand cornice brake. W. E. Campbell, Hartford City, Ind. 14

For Sale—One No. 9 Eagle automatic acetylene generator in excellent shape and repair; used only a short time. Write for price. Also one 10x15 screw letter press. C. A. Peck Hardware Co., Berlin, Wis. 14

HELP WANTED.

Wanted—At once, first-class tinner. Three Manley Bros., Harvard, Ill.

Wanted—At once, a good all round tinner. One who can do some plumbing. A steady job and good wages. New York Hardware Store, Perry, Oklahoma. 17

Wanted—A good tinner at once; steady work and good wages. Come at once. Maher & Son, Preston, Ia. 17

Wanted—By November 1st, a good tinner and furnace man; one who can do everything required in a tin shop. To a good sober and industrious man we will give work the year round. M. Reinhardt's Sons, 205 S. Sangamon street, Lincoln, Ill. 17

Wanted—Experienced galvanizer who thoroughly understands galvanizing pails, tubs and metal ware, to take charge of department for good company in northern Indiana section. Must be reliable man with a good record. Address Box A, care The American Artisan, 69 Dearborn street, Chicago, Ill. 17

Wanted—Salesman calling on the hardware trade, to sell a first-class washing machine. Will pay a liberal commission. Address "Washer," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 16

Wanted—Two reliable tinners or sheet metal workers; must be competent, sober and willing to work. Good wages and steady employment year round to right men. Haag-Laubach Roofing & Cornice Co., St. Paul, Minn. 16

Wanted—A good all around machinist. Write the E. R. Moses Merc. Co., Great Bend, Kan. 16

Wanted—Tinner, all around good man; steady job. Call 904 Chicago avenue, Evanston, Ill. 15

Two good all around tinners and furnace men. Will give steady work. Hoernel Hwd. Co., Racine, Wis. 15

Wanted—Good tinner; must come well recommended. Work all year. Wages $2.50 to $3.00 per day. A. W. Lund & Co., Crookston, Minn. 15

Wanted—At once, a first-class tinner and clerk, who can do inside and outside work. To strictly sober man will pay $2.50 a day; steady work. Write Stenehjem Bros., Mayville, N. Dak. 15

Salesmen—For oil and vapor stoves, west of Mississippi river; prefer experienced men with large clientage among hardware dealers. Liberal commissions and exclusive territory given to capable and responsible men. Address, stating age, bank and commercial references. Vapor Stoves, Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 15

Wanted—Good tinner and clerk at once. State experience and give reference. W. F. Rehbein, Grays Lake, Wis. 14

Wanted—Two good tinners for furnace work. Steady work to good, sober men. The Rollyn Hawkins Co., Indianapolis, Ind. 14

SITUATIONS WANTED.

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Situation Wanted—On per cent; territories preferred, or will start a shop in a city where first-class tinner can make a legitimate living. This is a business proposition to the trade. Geo. J. B. Wright, P. O. Box 57, Orange, Tex.

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Wanted—Position with some hardware firm as bookkeeper and salesman, 15 years' experience in hardware store. Don't drink, smoke, chew, or gamble; can furnish good references. Own and operate typewriter for use in the office. Address Care Box 53, Winnebago City, Minn. 15

Wanted—By a young man, a position as second tinner or helper; would like to learn furnace work. Address Box 69, care The American Artisan, 69 Dearborn St., Chicago, Ill. 14

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I WOULD LIKE to have a good sheet iron worker in each town in the U. S. manufacture for me a patent article to supply the trade in his town and neighborhood. Device made of Galvanized Iron; can be built in any good sized tin shop; good demand for it; good profit in making it; can be worked into a good business. Address

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is offered men with money to invest in a Stove Foundry that finds it impossible to fill orders for its goods and needs more capital. Present capitalization has paid a very heavy dividend.

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Hoes, Forks, Rakes and Snaths for next Spring's business. These goods are made by free American paid labor. Every fork and hoe is made of **CRUCIBLE STEEL** and have handles second to none in the world. The price has been *established* by the makers for next year's business and we advise our trade to buy "Geneva Crucible" goods of us now.

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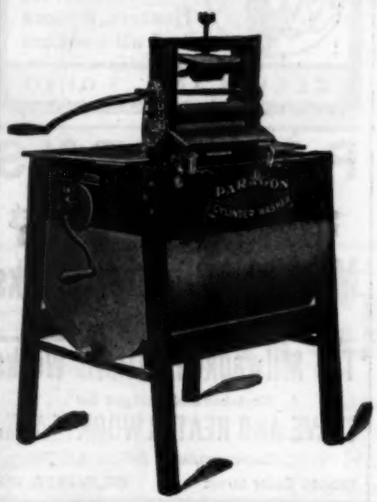

"Paragon" defined, means a model of excellence. That is why we call our washer "PARAGON". One commendable feature of the PARAGON is a revolving cylinder inside the outer tub. Being made almost wholly of galvanized steel the Paragon is not affected by climatic conditions.

GUARANTEED

not to injure the finest fabric—will wash the heaviest blankets—will wash 8 sheets or their equivalent in one operation—will do twice the volume of work with less labor than any family washing machine now sold. We solicit the patronage of the hardware trade.

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IT is convenient and durable. Needs no whistle, as the boiler contains sufficient water for one course of cooking. Neither does it boil dry, as steam condenses and returns to the boiler. Has no joints or doors to leak steam. Saves fuel, as from three to six separate articles can be cooked on one burner. Lift cap by knob and all your food is in sight. (Whistles furnished as per cut if desired.) We also make cookers of aluminum and copper which we guarantee will not rust. Agents wanted. Write for terms.

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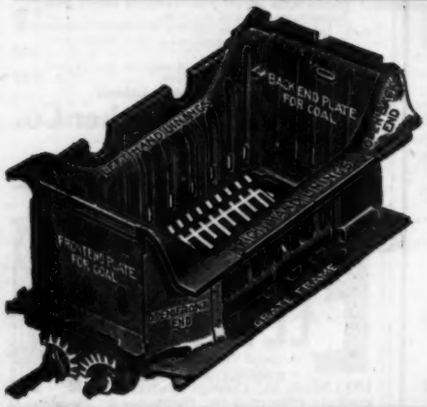

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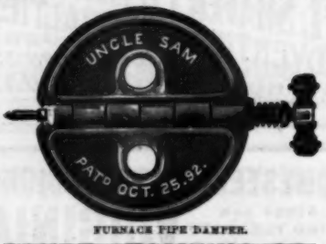

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The handle is enameled wood, will not heat, rigidly clamped and cannot come off. The spring is not affected by heat. The stem is a steel rod, all one piece and nothing to fall apart; pointed and easily driven through the pipe. The Damper Plate is made of cold rolled pickled steel, corrugated to stiffen it and to prevent warping. We call special attention to lightness and strength of these Dampers and their desirability for **FURNACE** pipes.

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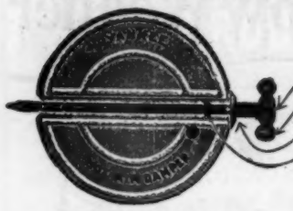
The Best and Easiest Damper to get in or out. Cheapest Damper made. Made also in Oval Shape.



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Steel Rod flattened and turned over handle.

Enameled Wood Handle, can't get out.

Spring and Washer.

This pin keeps washer and spring on the rod.

¼ inch cold-rolled steel rod. Can easily be driven through pipe, making small and same size holes on both sides.

Pin at this point with the one further up on the rod, hold the plate firmly, because they are made with large, elongated head. Steel damper plate.

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You Can't Afford to Make Dampers When You Can Buy the Yankee.

Smoke Pipe Sizes,	3	4	4½	5	5½	6	7	8
PER DOZ.,	.85	.85	.85	1.00	1.10	1.20	1.50	2.15

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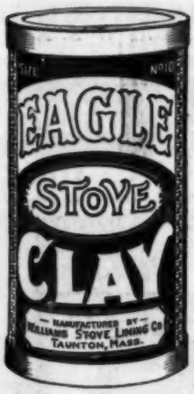

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Generally indicate a cut in quality. I make no cut in quality but

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IN PASTE, LIQUID OR POWDER

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A No. 1 Fire Pot will enable you to please your customer as he knows it is giving you good service, while *the "Just as good"* kind which will surely cause trouble and delay will make him say to you when your bill is presented for payment, *"You should not charge me for the time used to make that "Just as good" Fire Pot work.* You should have good tools, as I cannot afford to pay a premium on this job." Remember *dissatisfied customers usually go elsewhere when next in need.* Buy a No. 1 Fire Pot. Money back if it does not please.

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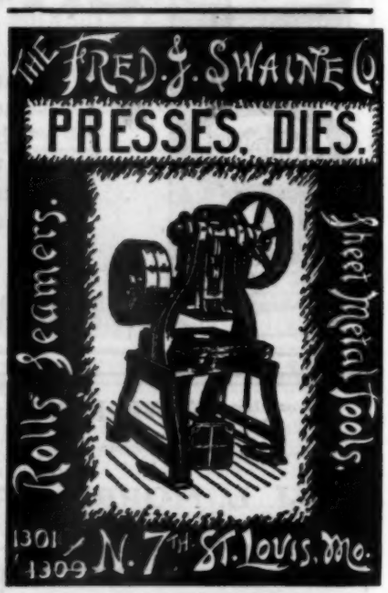

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Body in one piece; cannot break in two.
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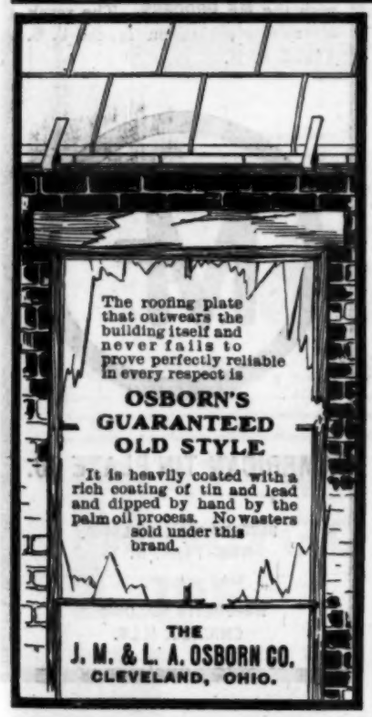

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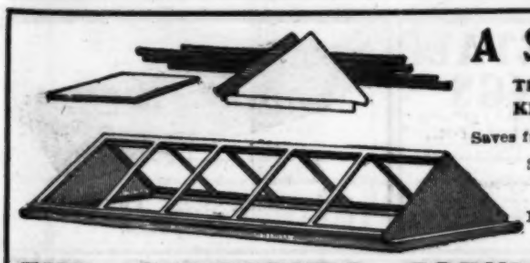

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The **MF PROCESS** of manufacturing roofing tin originated in South Wales two generations ago; from that time to the present the product of the **MF PROCESS** has been the most reliable and hence the **MOST FAVORED.**

Recently the **NEW METHOD** by which terne plates are finished in a manner that gives further protection against corrosion has been combined with the **MF PROCESS.** The result of this combination is the **U. S. EAGLE N. M.**

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STANDARD FOR QUALITY. (Lake Superior Copper)
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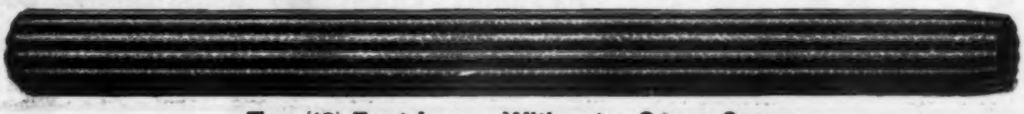


Ten (10) Feet Long, Without a Cross Seam.

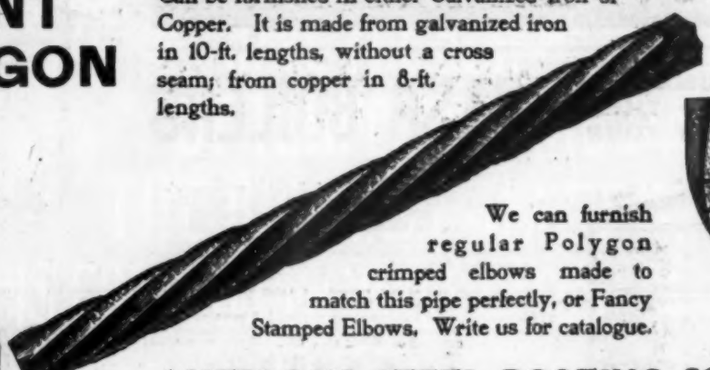
PLECKER'S CORRUGATED EXPANDING CONDUCTORS.

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

CLARK, QUIEN & MORSE, Peoria, Ill.

PATENT POLYGON PIPE

Can be furnished in either Galvanized Iron or Copper. It is made from galvanized iron in 10-ft. lengths, without a cross seam; from copper in 8-ft. lengths.



We can furnish regular Polygon crimped elbows made to match this pipe perfectly, or Fancy Stamped Elbows. Write us for catalogue.

AMERICAN STEEL ROOFING CO. MIDDLETOWN OHIO

W. A. GUENTHER & SONS, OWENSBORO, KY., WRITES:

"One copy of your valuable paper is frequently worth the subscription price for a year."

"IT TOES THE MARK"

Enameled Steelware and Tinware is not all alike. If it was you could choose it in the dark, and come out on the sunny side every time. But a dealer must be careful—the pitfall of poor quality is always open and you may fall into it if you don't choose the make that "toes the mark."

Write to our nearest office for prices and catalogues. And if you order, you won't need to say "rush." We are always prompt.

HIGHEST QUALITY

NATIONAL ENAMELING & STAMPING CO.

NEW YORK BALTIMORE CHICAGO
ST. LOUIS NEW ORLEANS MILWAUKEE

O-RIB-O WARE

BRISCOE MFG. Co.
DETROIT.

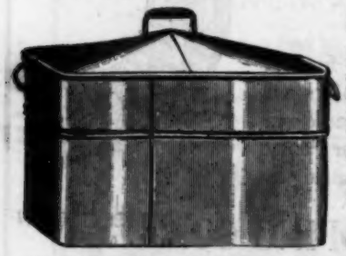
CORN CRIB
Holds 400 Bushels

Cheap, handy and economical. All dealers sell them. Write for prices.
We manufacture Peerless Wire Fence, Lawn Fence Gates, etc.

The Denning Fence Works
Cedar Rapids, Ia.

YOU ARE IN BUSINESS TO SAVE MONEY—THEN WHY NOT BUY YOUR

WASH BOILERS



Direct from the manufacturer? manufacture all kinds and sizes, all with pieced covers.

Nos. 7, 8, 9, IC, tin bottoms; Nos. 7, 8, 9, IC, with galv. bottoms; Nos. 7, 8, 9, IC, with cop. bottoms; Nos. 7, 8, 9, IX cop. bottoms; Nos. 8, 9, IXX, made of one piece; the body, Nos. 8, 9, IXXX, with 16-oz. bottom; Nos. 7, 8, 9, IC, cop. rim; Nos. 7, 8, 9, IX, cop. rim; Nos. 8, 9, IXXX, cop. rim; Nos. 7, 8, 9, IXX, cop. rim; Nos. 7, 8, 9, all galv. wash boilers; Nos. 8, 9, IXX, top; Nos. 8, 9, IXX, top cop. rim; Nos. 7, 8, 9, 12-oz. cop.; Nos. 7, 8, 9, 14-oz. cop.; Nos. 7, 8, 9, 16-oz. cop.

Packed ¼ doz. and ½ doz. crates. I take and ship orders from ½ doz. to 100 doz. on short notice.

Try a sample order and convince yourself. I have no agents and other expensive office help so to increase the cost, therefore I can undersell all others in this line. Write for prices.

P. MOSHIEK
421 SO. HALSTED ST. CHICAGO, ILL.

Genuine Hunter's Sifters

We are the sole manufacturers and there is no other Sifter made that has the reputation or is any comparison to the GENUINE HUNTER'S.

The only Sifter with a loose cap on the handle, so as to clean out the flour that accumulates in it while the Sifter is in use.

The Best in the World

Combined Mixer, Scoop, Measure, Dredger, Rice Washer, Pumpkin, Tomato, Wine, Starch and Fruit Strainer.

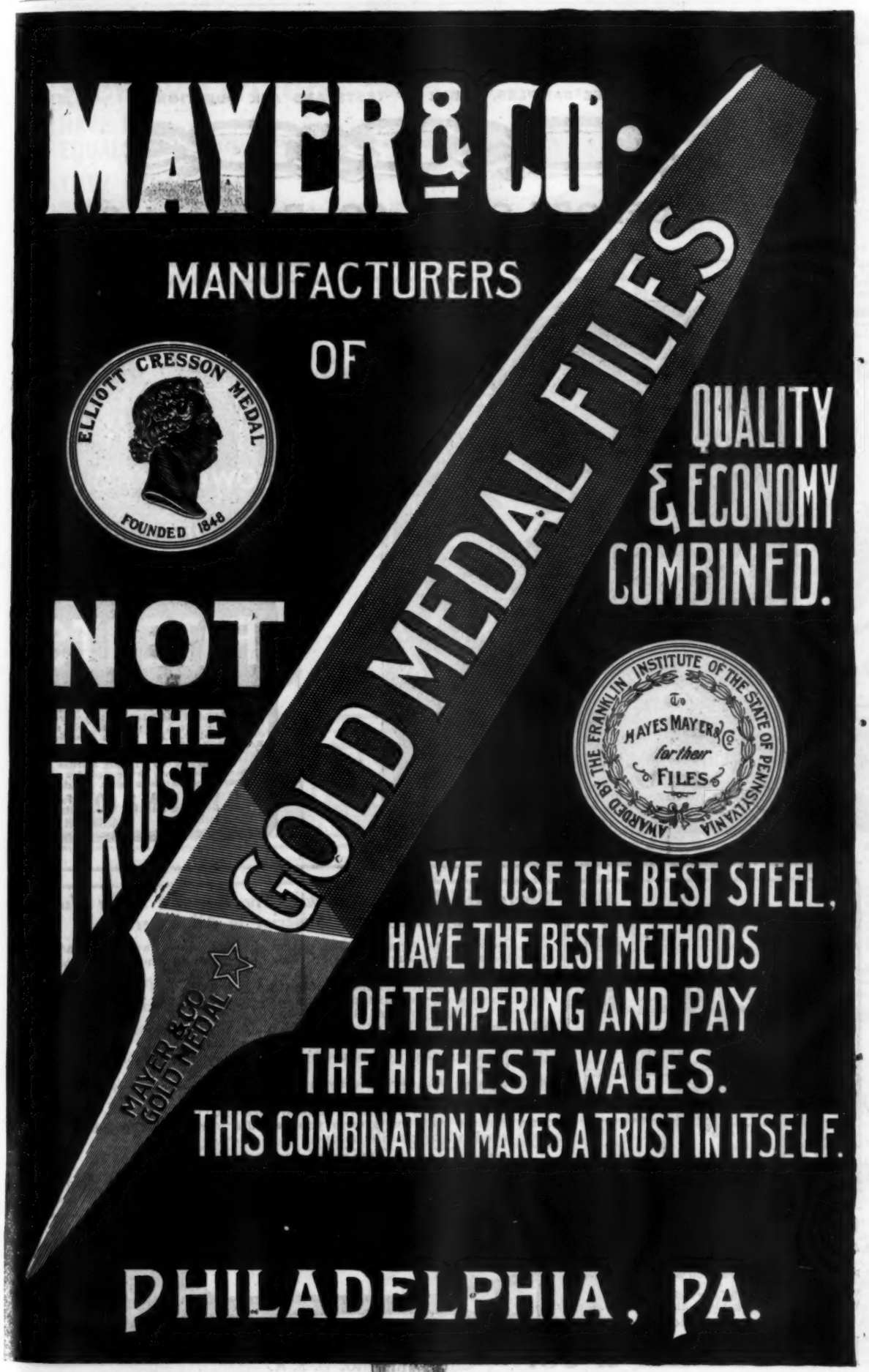
The Fred J. Meyers Mfg. Co.,
HAMILTON, OHIO

BISCHOFF DOOR HANGER

EASY

HANGING
ROLLING
SELLING

For quotations apply to the leading Jobbers or FRED. J. BISCHOFF & CO. CHICAGO.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GOLD MEDAL
QUALITY
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COMBINED.
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WE USE THE BEST STEEL,
HAVE THE BEST METHODS
OF TEMPERING AND PAY
THE HIGHEST WAGES.
THIS COMBINATION MAKES A TRUST IN ITSELF.
PHILADELPHIA, PA.

"TRIUMPH" CHAIN HAS TWICE THE STRENGTH OF WELDED.

SEND FOR FREE SAMPLES, TABLE OF TESTS AND ASK QUESTIONS.

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OVER TEN MILES OF CHAIN PER DAY. WE LEAD.

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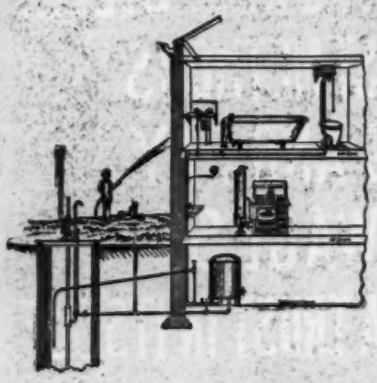

There are Ten Reasons why The Horigan Water Works System is Far Superior to All Others.

1st. Because we were the originators and we now have 22 imitators.
2nd. Because we do not bury our tank in the ground where it cannot be seen and attended to.
3rd. Because you do not have to dig it up.
4th. Because we put our tank in the cellar where you can have access to it at all times and see it in operation.
5th. Because we sell 20 of our systems to one of our competitors.
6th. Because we have 7,433 systems in operation to-day.
7th. Because it does not require a skilled mechanic or plumber to install them.
8th. Because with our system you have a regular water supply same as if with a city supply.
9th. Because our system never fails to work until well or cistern goes dry.
10th. Because with our system you can use any kind of power, hand, windmill, or gasoline engine.

MANUFACTURED BY

THE HORIGAN SUPPLY CO. :: ST. JOSEPH, MO.

Snow Shovels and Furnace Scoops

Place your orders early so you will get your Goods in time.
We make 6 styles, both Long and D handles.
We use only the best grade of Shovel Steel.

Write for our 4-page Circular.

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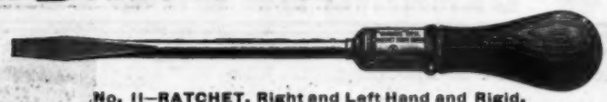
"Yankee" Screw Drivers

HAVE NO EQUALS.

THEY ARE SOLD BY LEADING JOBBERS.

Send for "Yankee" Tool Book.

NO. 12—RATCHET, With Stub Blade.



No. 11—RATCHET, Right and Left Hand and Rigid.

No. 15—RATCHET, With Finger Turn on Blade.

No. 30—SPIRAL RATCHET, Right and Left Hand and Rigid.

North Bros. Mfg. Co., Philadelphia, Pa.

THE LEONARD
Sectional ELECTROTYPE Cabinet

Offers the best system for the care of Electrotypes. Made of Oak in sections each 26 in. wide x 24 in. deep x 10 in. high. Each section contains ten extra strong drawers, size 18½ x 25½ x 1¾ deep. Each section will hold 700 electros 8x2. Buy one section or as many as you need, add to it at any time. Not sold through the trade; order direct of the factory.

Price, $5 per section, only 25c a drawer, and 25c for its frame; base $1.00, top $1.00.
Send for colored circular and full description of cabinet.

LEONARD MANUFACTURING CO.,
34 Market Street, - Grand Rapids, Mich.

RIGHT

In quality and price are the **Forest City Paints.** It has paid other dealers to handle them, why not you? Let us quote you?

THE FOREST CITY PAINT & VARNISH CO.

CLEVELAND, O.

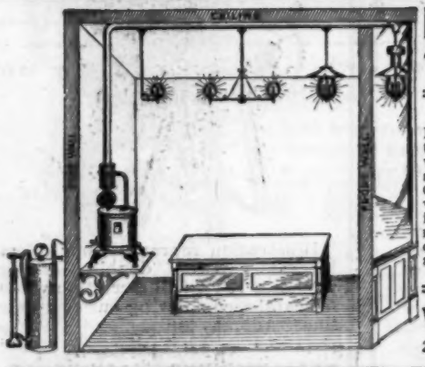
Buckeye Brand

Should be in every high class dealers stock.

Buckeye Paint & Varnish Co.
TOLEDO, OHIO.

LIGHT
THE PROBLEM SOLVED BY CARTER'S CELLULAR ACETYLENE GAS SYSTEM
SAFE SIMPLE ECONOMICAL
WRITE AND ASK ABOUT IT
NIAGARA FALLS ACETYLENE GAS GENERATOR COMPANY, NIAGARA FALLS, N.Y.

In order to convince you of the merits of the WONDERFUL DORAN LIGHT, we are making the following liberal 30-day offer. We appreciate the fact that all the talk in the world would not convince you as quickly and as surely as a 30-day trial of this perfect store light. It is THE light of the 20th Century—by far the most powerful and economical. Give it a 30-day trial and then send us the money or the outfit, just as you prefer. Write for our handsome 48-page catalogue.
ACORN BRASS MANUFACTURING CO.
87 N. Green St., Chicago, Ill.



How Does This Strike You?
TRY BEFORE YOU BUY

To further demonstrate to you that our Lighting System is a "money saver", and the most practical and safest on the market, we will allow free trial for 10 days and guarantee it against imperfection for two years. Can you afford to be in darkness any longer, with this opportunity before you? Send in your diagram for estimate. We are manufacturers, not assemblers. Avoid cheap imitators who demand money in advance.

White Manufacturing Co.
200 Michigan St. Chicago, Ill.

A PERFECT WORKING MODEL WRENCH

Exact Size of Cut.

Ebony, Ivory, Coral or Amber Handle, $2.00 per dozen. Pearl or Stone Handle, $3.00 per dozen.

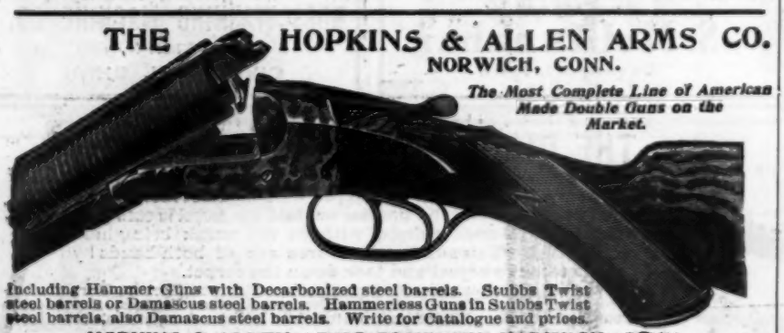
Over 2000 LIVE Hardware men sell 'em. The DEAD ones don't.

We will send two dozen prepaid in a handsome plush lined cherry tray to any dealer, on consignment, to be returned at our expense if found unsalable. We could not do this if they were not the best selling novelty in the hardware trade. It costs you nothing but a 2c stamp to try them. Drop us a line and we do the rest.

DAVISON MFG. CO. 110 Front St. Brooklyn, N.Y.

THE HOPKINS & ALLEN ARMS CO.
NORWICH, CONN.

The Most Complete Line of American Made Double Guns on the Market.



Including Hammer Guns with Decarbonized steel barrels. Stubbs Twist steel barrels or Damascus steel barrels. Hammerless Guns in Stubbs Twist steel barrels, also Damascus steel barrels. Write for Catalogue and prices.

HOPKINS & ALLEN ARMS COMPANY, NORWICH, CONN.

The "1900" BALL BEARING WASHERS

"1900"

"1900 JR."

There is not a machine on the market to-day that is as satisfactory or does the work as well as our washers.

They Work on an Entirely New Principle.

There are no wheels, paddles, rockers, cranks or complicated machinery to get out of order. They revolve on **Ball Bearings**, making them by far the easiest running machine made.

Simplest, easiest, most efficient machine for washing clothes ever invented.

The greatest labor-saving machines ever invented for family use.

DOMESTIC

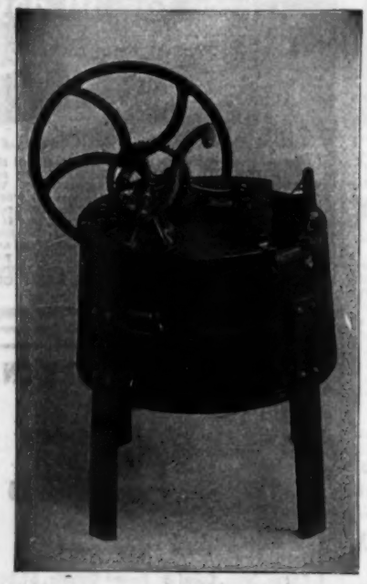
HOTEL

Address

The "1900" Washer Co.

BINGHAMTON, N. Y.

All washers have some good points; some have all good points.



The

Mack Washer

is superior because it contains the three essential points to make a good Rotary Washing Machine.

HIGH SPEED

Washer operates from 2½ to 3½ times faster than other Rotary Machines that operate with handle on balance wheel.

LIGHT RUNNING

With each revolution of the crank the balance wheel revolves six times giving such a momentum there is no jerk to the running.

DURABILITY

Made of Virginian Cedar—has corrugated sides and bottom—legs bolted on solid with four galvanized bolts—castings aluminum brass fastened with bolts instead of screws.

Circulars explain more completely —Won't cost you anything to get them.

Manufactured by

S. McGranahan

Davenport, Iowa.

BOSS WASHING MACHINES

11 DIFFERENT STYLES—31 SIZES

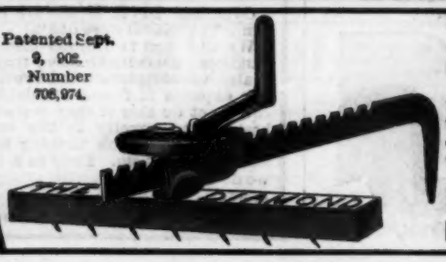
Illustration represents our "Boss Internal Gear" double acting washer. For full description write for catalogue showing our complete line. Address

BOSS WASHING MACHINE CO.

STATION H,

CINCINNATI, OHIO.

Patented Sept. 9, 902. Number 706,974.



THE DIAMOND CARPET STRETCHER

Beware of Infringements. The best Stretcher on the market. Notched bar is steel.

By turning the crank the carpet will be stretched to any tension desired and the stretcher will hold the carpet in such position wherever the crank is stopped without the crank being held or fastened. This admits of the free use of both hands by the operator to adjust and tack down the carpet.

We are manufacturers of specialties including the Herbert Wire Stretcher, Herbert Wood Clamp, also **Gas and Gasoline Engines**, Stationary, Portable, Marine and Automobile. Write for particulars.

HOLLIDAY MFG. & ENGINEERING CO., 200 S. Clinton St., Chicago

By Test the Best!

OVER ONE HUNDRED THOUSAND IN USE

We sell to only one dealer in each town. Write us.

Once Sold They NEVER Come Back

Distributing Points

Kansas City **Council Bluffs** **Sioux City** **St. Paul**

Do You Know

That the O. K. WASHING MACHINE

is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.

Write us for Circulars and Prices.

H. F. BRAMMER MFG. CO. Dept. B. **DAVENPORT, IOWA**

If you are looking for a washer containing force, strength, and master, then we have it in the

B. B. Rotary Roller Gearing Washer.

Has case-hardened rollers, is noiseless, made of kiln-dried red cypress lumber, corrugated staves and bottom, has many more excellent features.

WORKS SO EASILY A CHILD CAN OPERATE IT.

If you are wanting a good washer why not write us about ours? One-half dozen makes.

THE BENBOW-BRAMMER MFG. CO.,
ST. LOUIS, MO.

ARE YOU WITH US? IF NOT, WHY NOT?

3,000

LIVE HARDWARE DEALERS
ARE WITH US AND SAY THE

White Lily Washing Machine

is the best seller on the market.

HIGH SPEED, LIGHT RUNNING,
HANDSOME FINISH AND GUARANTEED.

Only one dealer in each town can get them. We will do some advertising for you. Write for particulars.

WHITE LILY WASHER CO.
TOLEDO, OHIO **DAVENPORT, IOWA**

WHITE LILY WASHERS WASH LILY WHITE.

BOWL.

Largest and Best Equipped Factory in the South for the Manufacture of

SAD IRONS, Country and Stove HOLLOW WARE, Ground and Unground; SUGAR KETTLES, ENGLISH POTS, Castiron SHOE LASTS and STANDS, KITCHEN and CORNER SINKS, GRATES, ETC.

REVERSIBLE CAST IRON SHOE LASTS AND STANDS.

WHY NOT WRITE FOR OUR CATALOGUE? It cannot fail to prove of interest and value to you

ECCENTRIC STOVE KETTLE.

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EMIL TAEGE

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Manufacturer of all styles of Milk, Cream and Pouring Cans; all kinds of Milk Dealers, Creamery and Dairy Supplies. You can save money by buying your cans from manufacturer.

Write for Prices and Catalogue.

SEE THAT YOU GET WHAT YOU ORDER.

SPECIALTIES FOR WINTER TRADE

"TROPIC" Furnace Shovels.
"ALASKA" Snow Shovels.
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We make a complete line of Hollow Back Shovels, Scoops, Spades, "Never-Break" Spiders, Griddles, Kettles, etc.

Our NEW PLAIN BACK SHOVELS are taking everywhere. Do you know why?

THE AVERY STAMPING CO. CLEVELAND, OHIO.

MAKERS OF "NEVER-BREAK" GOODS.

OUR LATEST BUSINESS BRINGER

THE "GRAND RAPIDS."

This new Refrigerator—"The Grand Rapids"—is the companion piece to the famous "Leonard Cleanable"—*at a lower price.* The agency for both goes together.

Made of Ash instead of Quarter Sawed Oak, but with all the features of the higher priced machine, making it our "cheap" line, but even then a better *practical* refrigerator than the *best* of other makes.

Don't buy refrigerators until you have carefully investigated the advantages of handling this *couple,* the easiest selling and best known refrigerators made.

The "Grand Rapids" is made of ash, golden finish, double box throughout, insulated with charcoal sheathing, lined with zinc or white enamel, raised carvings, real bronze trimmings, removeable flues, solid iron shelves, air-tight locks—*all* of them talking points. The name alone will sell it.

The "Leonard Cleanable"—known everywhere—quarter sawed oak panels, lined with real porcelain on sheet steel.

This makes the best selling combination it is possible to get.

Send for catalogue. Samples for comparison will be shipped on request.

GRAND RAPIDS REFRIGERATOR CO.

34 Market Street, GRAND RAPIDS, MICH.

The Highest Type of American Cutlery

IS EXEMPLIFIED IN

QUEEN SHEARS

FARWELL, OZMUN, KIRK & CO.,

Wholesale Distributers. ST. PAUL, MINN.

No. A Grain Leather, - $2.50
No. AA Buck Leather, $2.25
Retails, 35 and 50c.

FITS ANY HAND.

All Farmers Want These Hooks. "ALL Say They Are the Best They Have Used."

R. F. Clark
185 Jackson Boulevard
CHICAGO

No. AB Grain Leather, - $4.50 Doz.
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Retails, 35c and 50c.
For weak wrists and extra protection and comfort.

Manufacturer of over 30 STYLES of PINS, HOOKS and BANDS

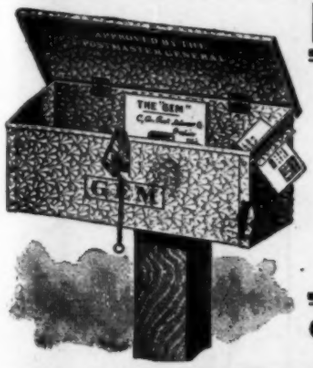
SEND FOR NEW LIST SHOWING ALL STYLES MADE FOR 1904

BABY HURWOOD

(Cut Exact Size.)

Extra quality Crucible Steel of 7-32 in. diameter. A handy little tool for the vest pocket, which will work a good sized screw. Made only in one size. **$3.50** Per Doz.

THE HURWOOD MFG. CO. (INC.), Plantsville, Conn., U. S. A.



FROM NOW ON

Rural Mail Boxes will be staple with the hardware dealer. Thousands are being put up. There'll be thousands to replace. The **DOLLAR BOX** will always be the popular box. All leading jobbers handle

The "GEM"

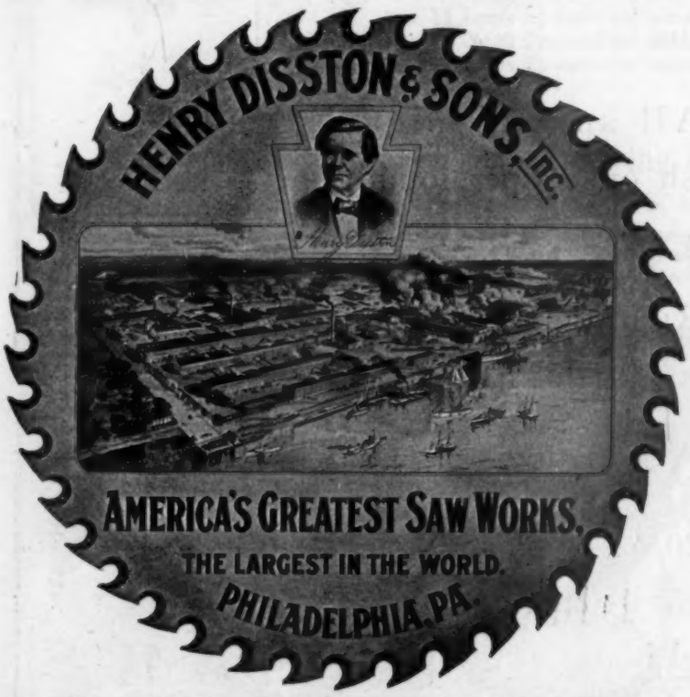
ORDER THROUGH US OR YOUR JOBBER.

C. A. PECK HARDWARE CO.
BERLIN, WISCONSIN.

IT BEATS 'EM ALL.
TRINER'S
Improved Automatic
Universal Family Scale

Investigate its many superior points and you will handle NO OTHER.

TRINER SCALE & MFG. COMPANY
128-130 South Clinton Street,
CHICAGO, - U. S. A.



American Family Scale

BEST IN THE WORLD.

It is made of STEEL, TIN or BRASS Scoop Top.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20 pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use, and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

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AMERICAN CUTLERY CO.
CHICAGO, ILLINOIS.

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SACINAW, MICH.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS **Sold by All Hardware Dealers**

NEW BRITAIN, CONN.

The Greater

HOME PRIDE

Malleable
Steel Range

Heaviest malleable by 75 lbs.

All smooth nickel finish on copper foundation.

Right and left hand portable, flush reservoirs.

Ask for catalogue.

20-oz. copper, 10-gauge oven bottom, 16-gauge steel body.

Blue and black enameled. 23, 20 and 18 inch ovens, 8 and 9 inch covers.

Built by

HOME PRIDE
RANGE CO.
MARION INDIANA

ENTERPRISE
Meat and Food Choppers

TINNED

45 Sizes and Styles for Hand, Steam and Electric Power

No. 2 $1.50
No. 4 2.00
No. 6 3.00

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No. 10 3.00
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No. 12 chops 3 pounds per minute $2.75
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The Enterprise Manufacturing Company of Pa.

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It is hard to Satisfy Every Roofer.
We come pretty near satisfying every Roofer that deals with us.
But if we didn't give so much attention to making
ROOFING TIN
perhaps we would have as much trouble as some others.
Write for Sample Set "A."
THE McCLURE COMPANY
PITTSBURG Tinplate Manufacturers PHILADELPHIA
MILLS: Washington, Pa.

THE "CENTENNIAL" Rain-Water Cut-Off

The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for. Manufactured only by
COONEY & GEIGER,
19 and 21 E. South Street
INDIANAPOLIS, INDIANA

"PULLMAN" Sash Balances

Are you selling them?
In use everywhere.
Look for the Metal Tapes in All New Buildings . . .
Folder No. 2 sent free.
PULLMAN MFG. CO.
Rochester, N. Y., U.S.A.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS, MFG. CO., New Haven, Ct.

The man who doesn't advertise because somebody said it did not pay, ought not to believe that the world is round because the ancients said it was flat.

STEVENS

Single and Double Barrel Shotguns

Are the best selling line of guns made.

They are choke bored for nitro powders.

Prices, $7.50 to $30.00

Our latest production: The Single "Trigger Action" Single Barrel Shotgun.

Send for circular.

YOUR JOBBER CAN SUPPLY YOU. SEND FOR COMPLETE CATALOG.

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We Have
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1c 20x23	20x26	20x29½	20x32½	20x39
1x 20x23	20x26	20x29½	20x32½	——

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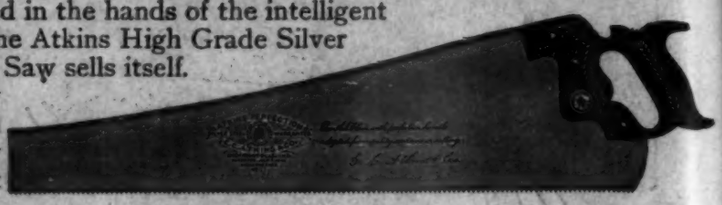

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